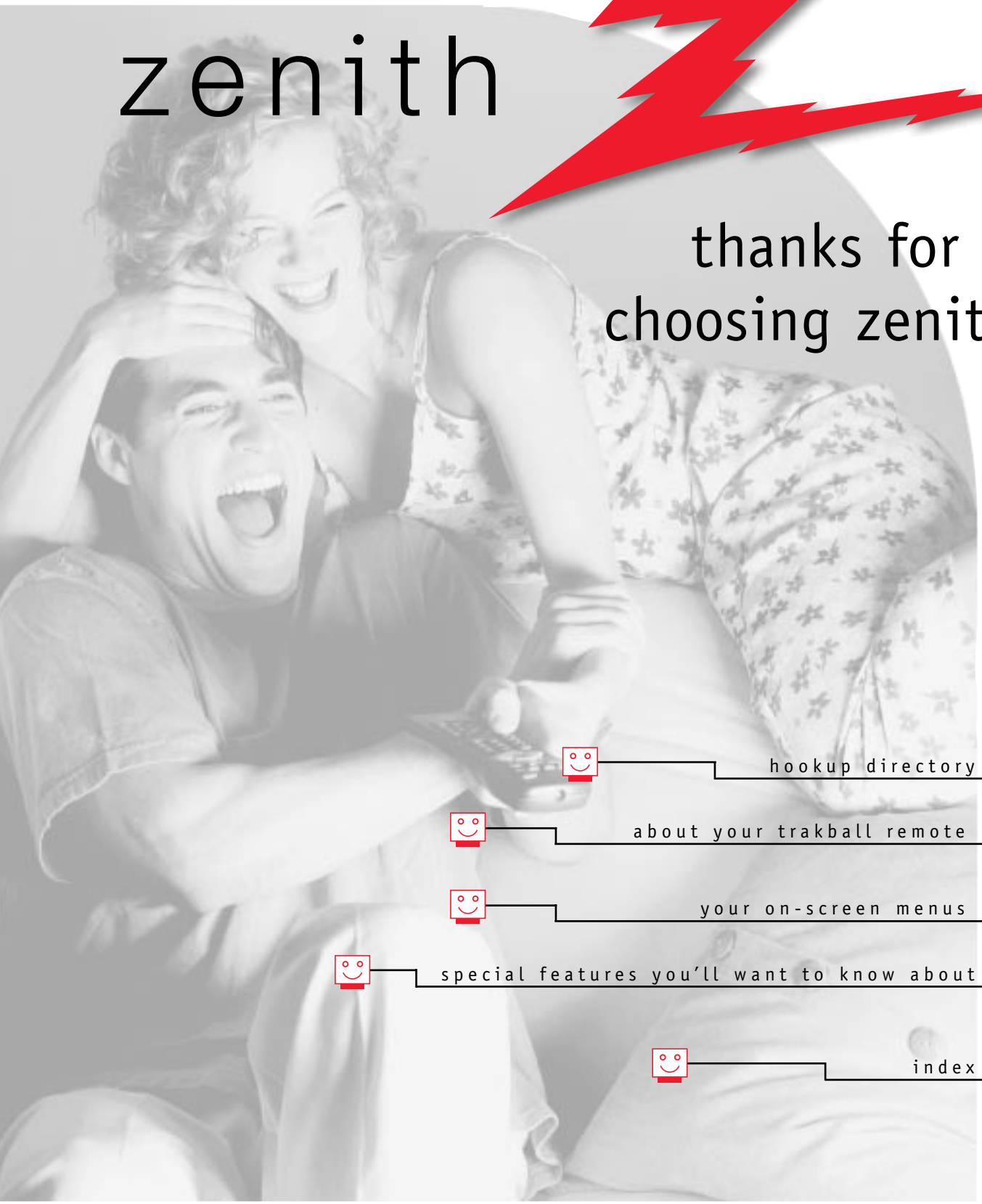
machine number | A50M84W

zenith



thanks for choosing zenith!

hookup directory page 3

about your trakball remote page 16

your on-screen menus page 20

special features you'll want to know about page 51

index page 54

operating guide / warranty

RECORD YOUR MODEL NUMBER

The model and serial number of your new TV are located on the back of the TV cabinet. For your future convenience, we suggest that you record these numbers here:

MODEL NO._____

SERIAL NO._____

WARNING:

TO REDUCE THE RISK OF ELECTRIC SHOCK DO NOT REMOVE COVER (OR BACK). NO USER SERVICEABLE PARTS INSIDE. REFER TO QUALIFIED SERVICE PERSONNEL.

The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

WARNING:

To prevent fire or shock hazards, do not expose this product to rain or moisture.

POWER CORD POLARIZATION:

CAUTION: To Prevent Electric Shock, match wide blade of plug to wide slot, fully insert.

ATTENTION: Pour éviter les chocs électriques, introduire la lame la plus large de la fiche dans la borne correspondante de la prise et pousser jusqu'au fond.

NOTE TO CABLE/TV INSTALLER:

This reminder is provided to call the cable TV system installer's attention to Article 820-40 of the National Electric Code (U.S.A.). The code provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of the cable entry as practical.

REGULATORY INFORMATION:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

CAUTION:

Do not attempt to modify this product in any way without written authorization from Zenith Electronics Corporation. Unauthorized modification could void the user's authority to operate this product.

Hookup Directory

This page will help you hook up your Entertainment Machine properly.

IMPORTANT!! Use this page to decide where you need to begin your setup. First, find the line below that best describes what you want to do, then go to that page number. For a complete index go to page 54.

GENERAL HOOKUP INFORMATION

About your Jacks For general information about the jacks on your Entertainment Machine, go to . . . . pages 4 and 5

INPUT HOOKUP OPTIONS

Antenna/Cable If you are using an antenna or have direct cable service, go to . . . . . page 6

Cable Box If you are using a cable box, go to . . . . . page 7

VCR If you are using a VCR, go to . . . . . page 8

DVD Player If you are using a DVD Player, go to . . . . . page 9

AUDIO EQUIPMENT OPTIONS

Speaker Placement For general speaker placement advice, go to . . . . . page 10

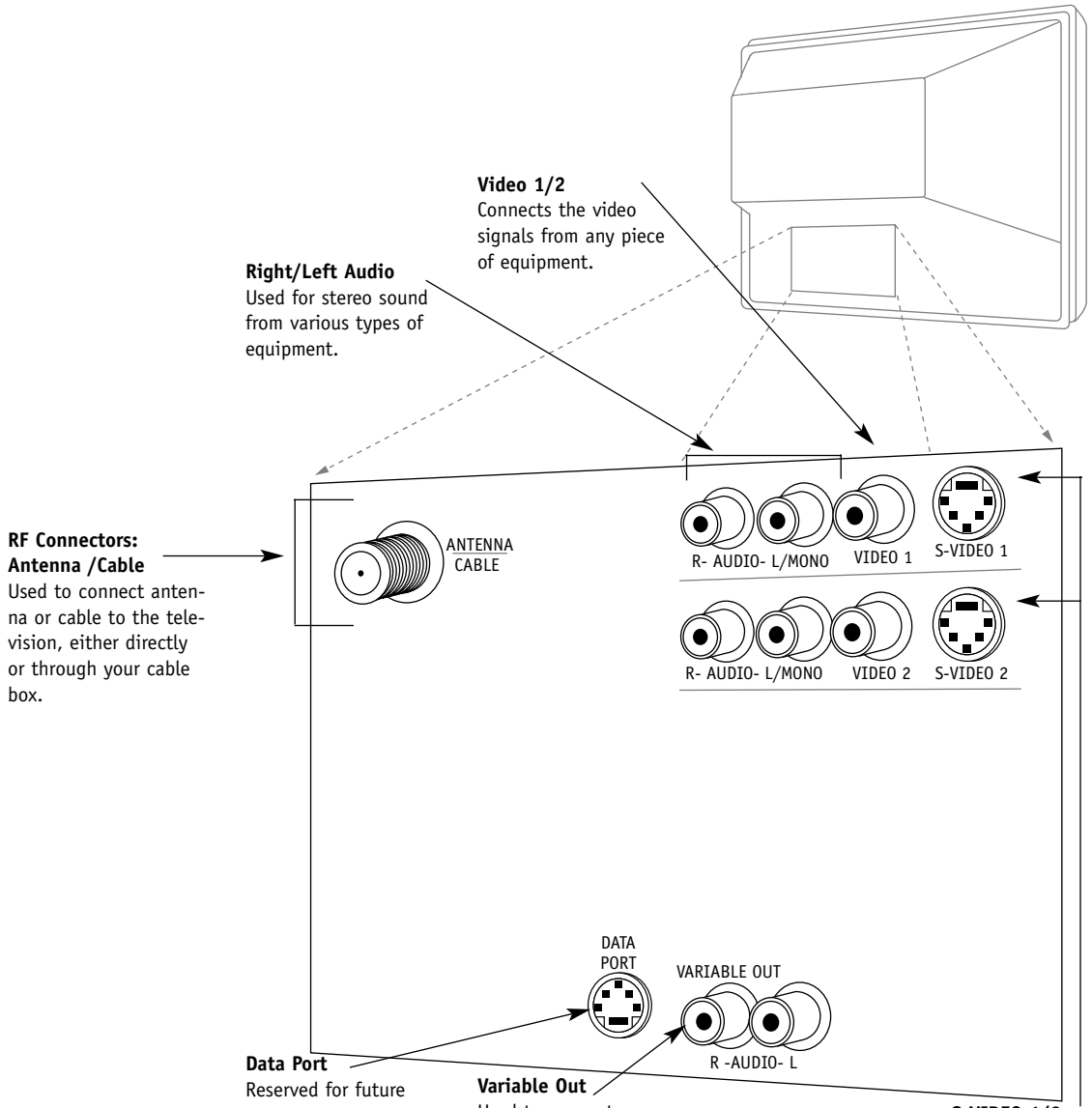
Audio Speakers To hook up your surround sound speakers, mini tower speaker or sub-woofer, go to . . . . . page 11

External Stereo To hook up your entertainment machine to an external stereo, go to . . . . . page 12

For a complete Index, see page 54-55.

Audio Video Jacks

Your jack-pack and its various uses.



Video 1/2
Connects the video signals from any piece of equipment.

Right/Left Audio
Used for stereo sound from various types of equipment.

RF Connectors: Antenna /Cable
Used to connect antenna or cable to the television, either directly or through your cable box.

Data Port
Reserved for future use.

Variable Out
Used to connect either an external amplifier, or add a sub-woofer to your surround sound system.

S-VIDEO 1/2
A feature available with some very high-end equipment that provides even better picture quality.

Mini glossary

JACK	A connection on the back of a TV, VCR, or any other A/V device. This includes the RF jack and the Audio/Video jacks that are color-coded.
SIGNAL	Picture and sound traveling through cable, or on the air, to your television screen.

Hook Up Direct Cable TV or Antenna

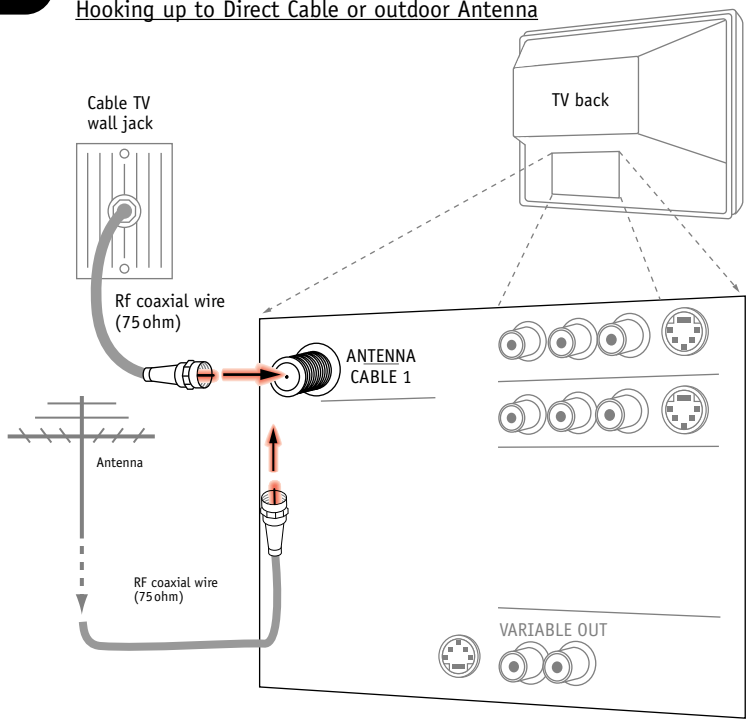
Hooking up to Direct Cable and Antenna

1 Locate the Antenna/Cable jack on the back of your Entertainment Machine.

2 Connect the cable that runs from the wall or from your outdoor antenna directly to this jack.

If you receive antenna through a wire that is several years old and connects with two small prongs, you will need to purchase a 300 Ohm adapter. It should be available from your local electronics dealer.

Hooking up to Direct Cable or outdoor Antenna



Connecting cable to your Entertainment Machine.

Hooking up to your Cable Box

Some cable services require the use of a cable box to decode premium channels and pay-per-view. Using the programming feature of your remote, you can connect your cable box so that you only need your MBR Trakball remote to control all the channels. By connecting cable directly to your Entertainment Machine, then running it out to the cable box and back, you make the cable box another source to choose from in the Source menu (see page 22).

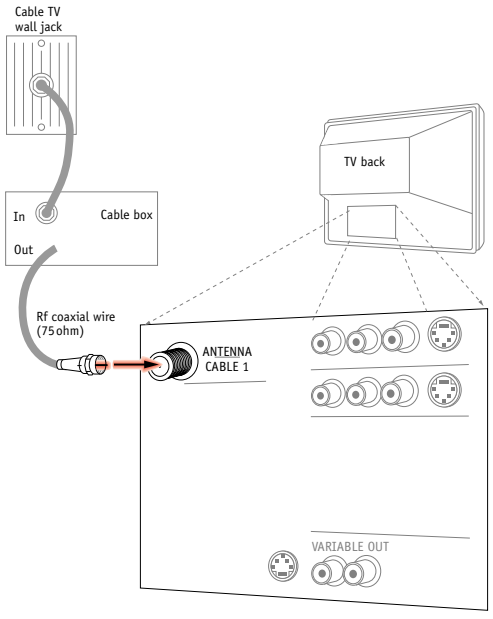
1 Locate the input jack on the back of your cable provider's decoder box.

2 Connect the cable that runs from the wall to this jack.

3 Locate the output jack on the back of your cable provider's decoder box. Connect a cable to this jack.

4 Locate the Antenna /Cable jack on the back of your Entertainment Machine. Connect the other end of the cable that runs from the decoder box to this jack.

Hooking up to Direct Cable with a cable box

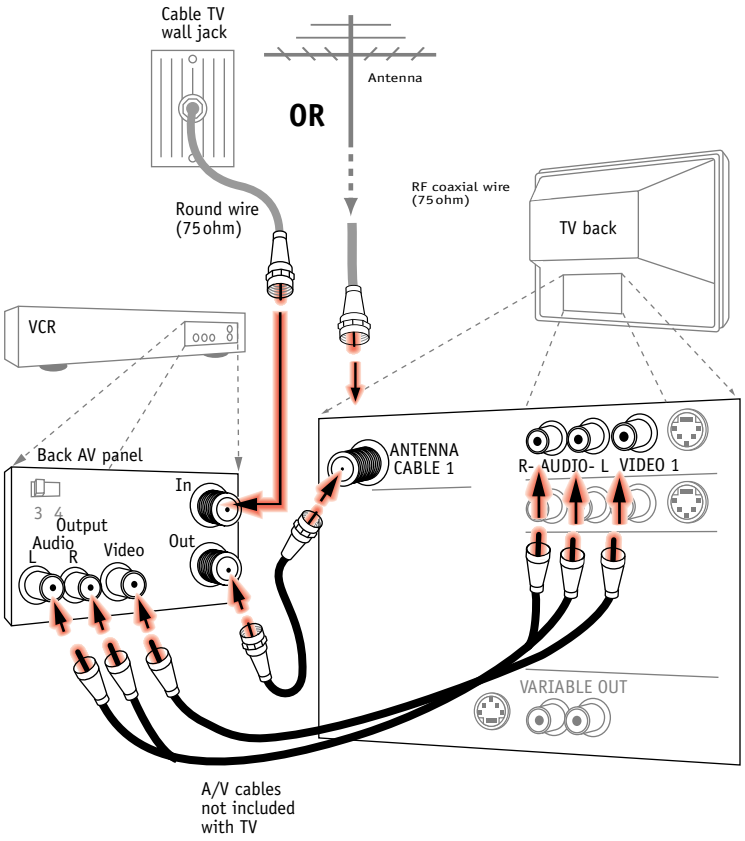


Connecting a VCR to your Entertainment Machine.

Hook Up Your VCR and Cable

1 Locate the RF or VHF/UHF/CATV In jack on the back of your VCR. Connect the cable line coming from your wall directly to this jack.

2 Find the composite video and audio jacks on the back of your VCR, and connect them following the instructions provided with your equipment.



The cords should be included with your VCR.

To use with PIP: go to the source menu (see page 23) and choose the jack that you've connected your VCR to (Video 1) as the Main or PIP source.

If you want to receive your signals on channel 3 or 4, locate the Out to TV jack. Connect a cable from that jack to the Antenna/Cable jack on the back of your Entertainment Machine.

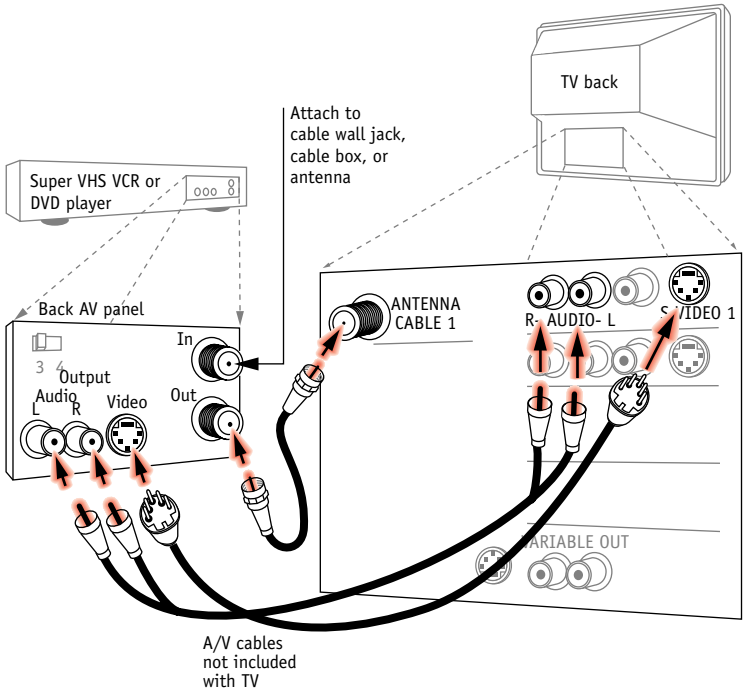
Hook Up Your Super VHS VCR Player

Connecting a DVD player or S-VHS player to your Entertainment Machine.

1 Locate the VHF In jack on the back of your DVD or S-VHS VCR. Connect the cable line coming from your wall directly to this jack.

2 Now locate the Out to TV jack. Connect a cable from the Out to TV jack to the Antenna 1/Cable 1 jack on the back of your TV.

3 Find the audio and S-Video jacks on the back of your DVD or S-VHS player, and connect them following the instructions provided with your equipment.



For several pieces of equipment, edit the names under Source ID so you don't forget which is which. See page 31.

Some high-end DVD players use a picture reproduction system called "component video." Please refer to your DVD manual for proper installation.

To use with PIP: go to the Source Menu (page 23) and choose the jack you've connected your S-VHS or DVD player (Video 1-3, DVD) as the Main or PIP source.

Mini glossary

COMPONENT VIDEO	Some video equipment uses three separate lines (Y, R-Y, B-Y) to more precisely reproduce images. Your manual will explain how this relates to your equipment.

Combine your new Entertainment Machine with your home stereo system.

External Stereo

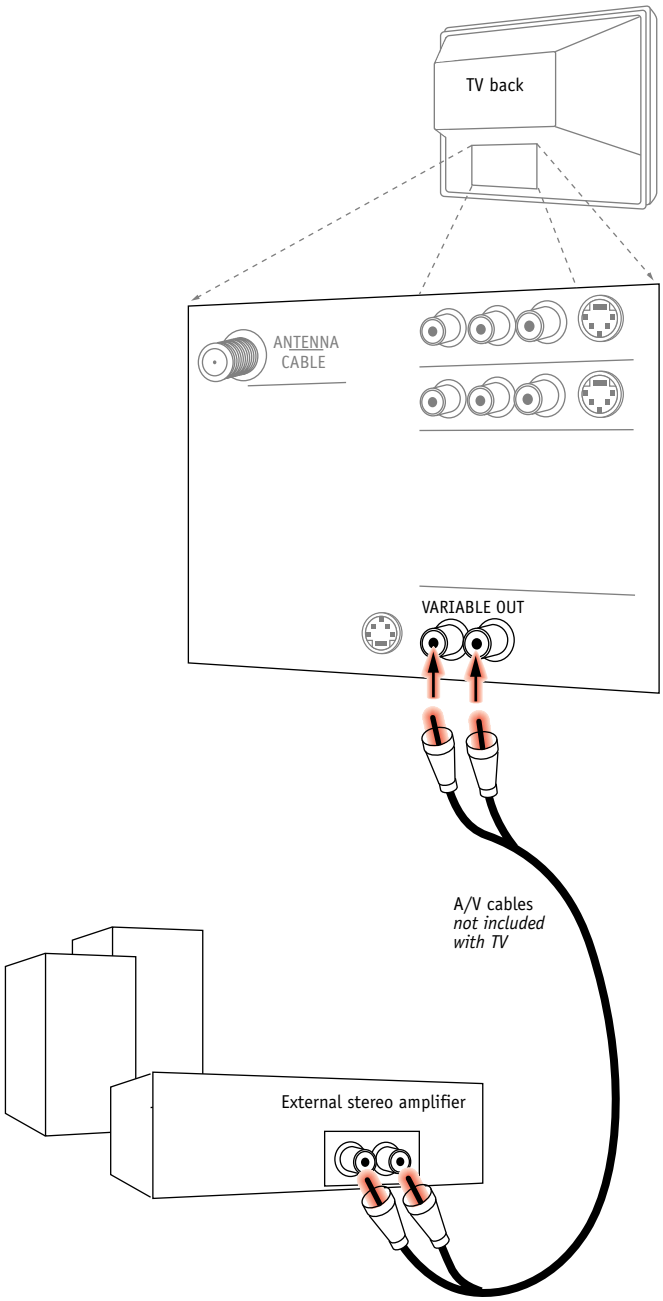
You'll want to make sure your Entertainment Machine and stereo are located where you want them. Moving connected equipment can be dangerous for you and for it.

1 Locate the Variable Out jacks on the back of your TV, and the Input jacks on the back of your stereo's amplifier.

2 Connect the two jacks, making sure that the right and left channels are placed correctly.

3 Set up your speakers through your stereo, according to those directions.

you can adjust the volume level on your external stereo system even if your remote is in TV mode. See Amplifier Volume Override on page 46.



Mini glossary

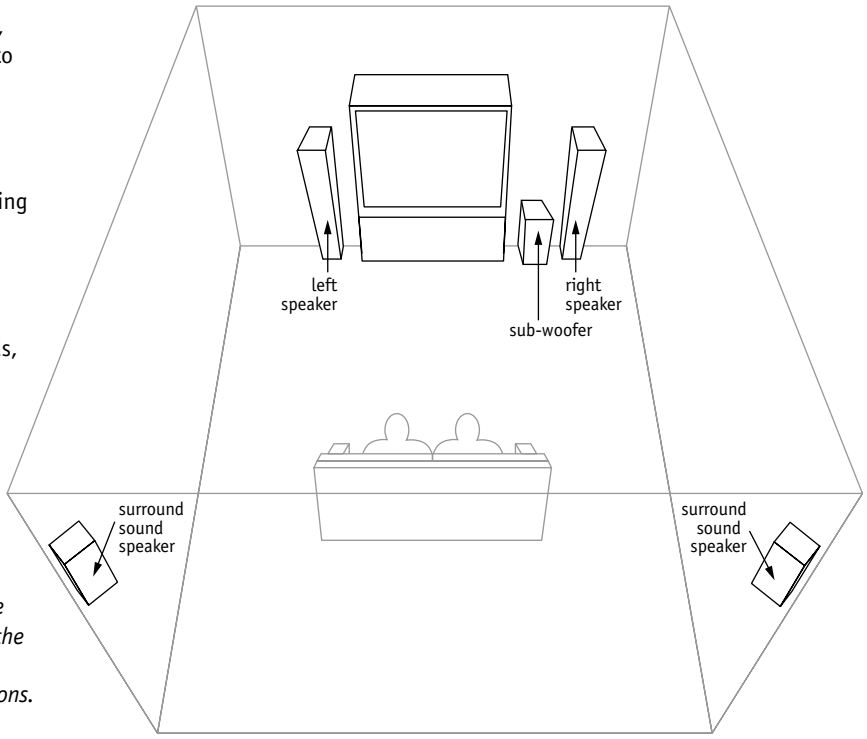
AMPLIFIER An external machine that amplifies sound from a television, CD player, VCR, DVD or other A/V device.

Room Set-ups for Home Theater

General help on designing your home theater set-up.

This is just a general room design. Any number of set-ups are possible, and some changes may be needed to maximize your sound.

A left and right speaker on either side of the Entertainment Machine will create a "center channel," making the dialog sound as though it's coming directly from the Entertainment Machine.
The rear surround sound speakers provide the majority of other sounds, like those from special effects in movies. Your sub-woofer generates ultra-low frequency sound, for rumbling low-end audio.



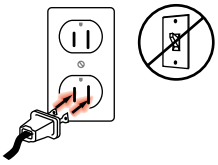
Sound is affected by speaker placement, so make sure nothing is in front of the speakers, and that they are aimed in appropriate directions.

If your surround sound system is on, but there's no sound from the speakers, the program you're watching might not be broadcast in surround sound.

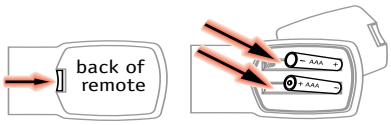
Powering the remote and your Entertainment Machine.

Quick Start

1 Use pages 6-12 to hook up your Entertainment Machine. Plug in your Entertainment Machine and press the Power button on the front panel. The Quick Start screen will instantly appear, with three steps you should follow if you have not yet done so.



2 Remove the back of the remote and put in three AAA batteries. Make sure batteries are properly installed (check the +/– signs).



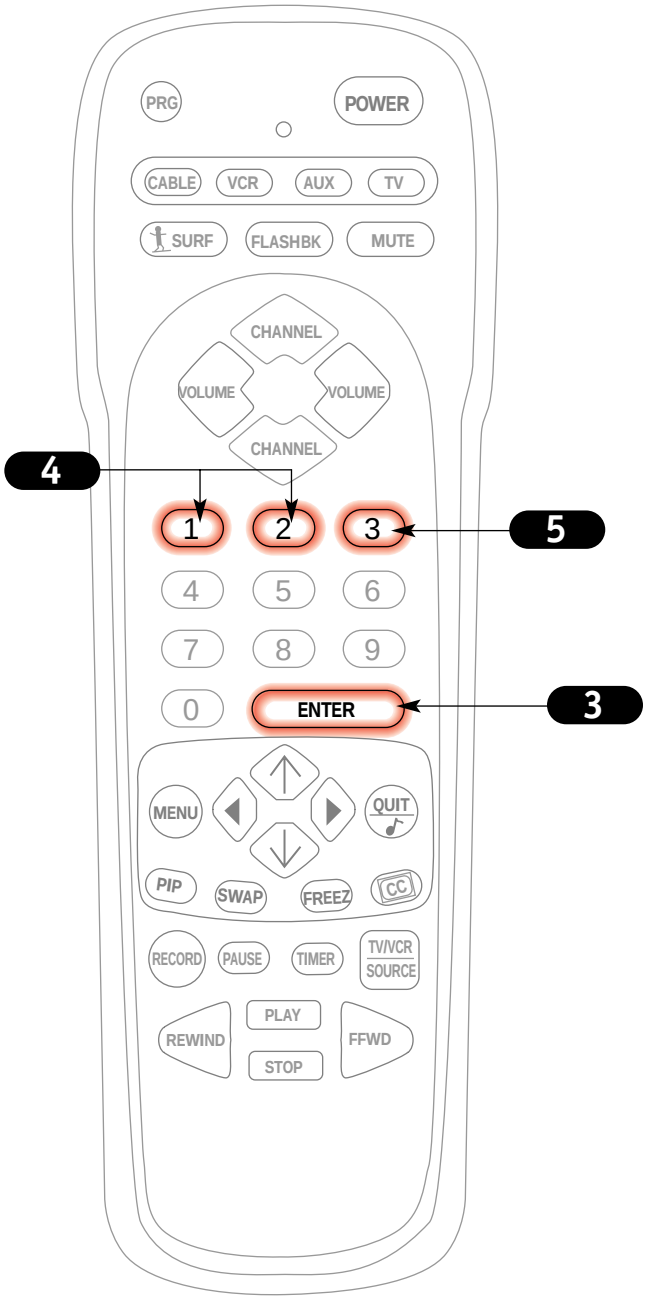
3 Click ENTER on your remote to continue the setup process.

4 Your choice will be to pick 1 or 2 (Antenna or Cable), depending on the type of input signal you have.

5 You will then be prompted to press 3 on your number pad. Your Entertainment Machine will now search for all available channels, and store them in its memory.

The Quick Start menu appears the first time you turn on your Entertainment Machine, allowing you to get this out of the way before going on to other options.

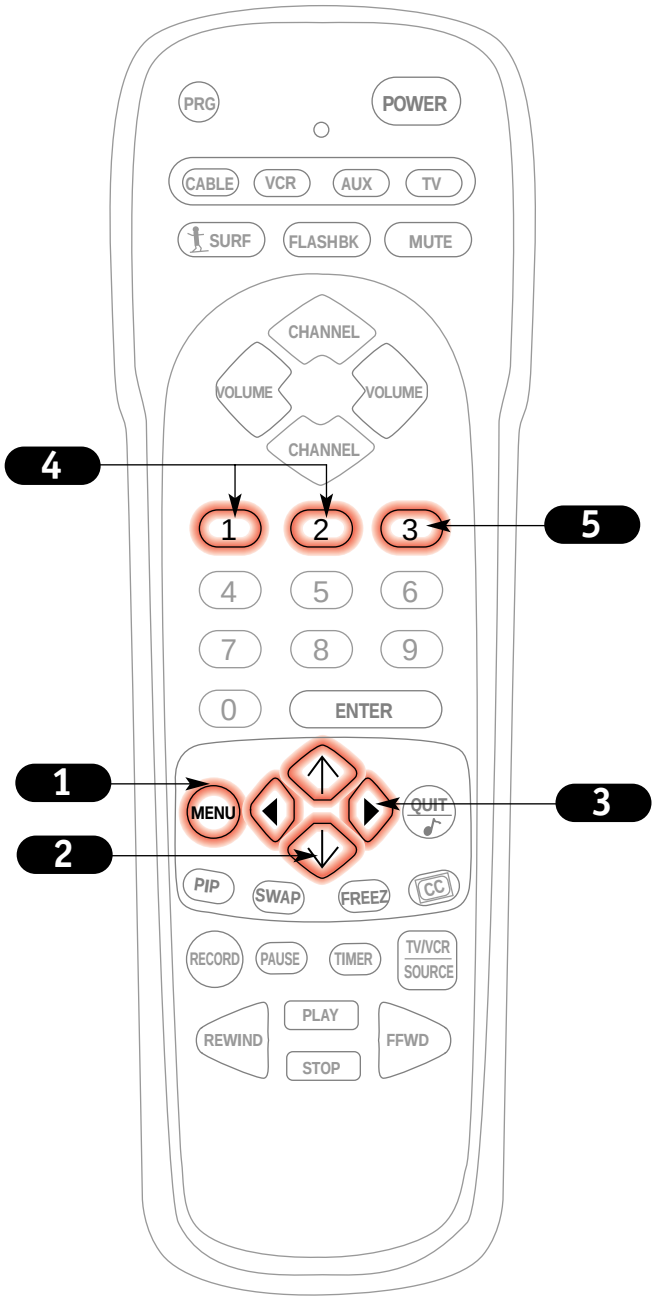
The Quick Start option only works when the current source for the Main picture is Antenna/Cable. Once you have programmed the channels for Antenna/Cable this option will not appear in the menu for another source.



Channel Search

Automatically set available channels for any source.

1. Press the MENU buttonrepeatedly until the Setup Menu appears.
2. With the UP/DOWN arrow keys, choose Channel Search.
3. Using the RIGHT/LEFT arrows, to begin Channel Search.
4. Choose 1 or 2 (Antenna or Cable), depending on the type of input signal you have.
5. You will then be prompted to press 3 on your number pad. Your Entertainment Machine will now search for all available channels, and store them in its memory.



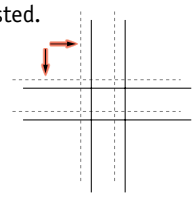
Projo Setup: Convergence

Adjust the color alignment to make your picture the sharpest it can be.

1 Press the MENU key repeatedly until the Setup menu appears.

2 Using the UP/DOWN arrows, select Projo Setup on your screen.

3 Press a RIGHT/LEFT arrow key to enter the Convergence screen. You will see two intersecting lines. If the lines are perfectly white, your colors are fine. If you can see either blue or red lines, then one of those two colors needs to be adjusted.



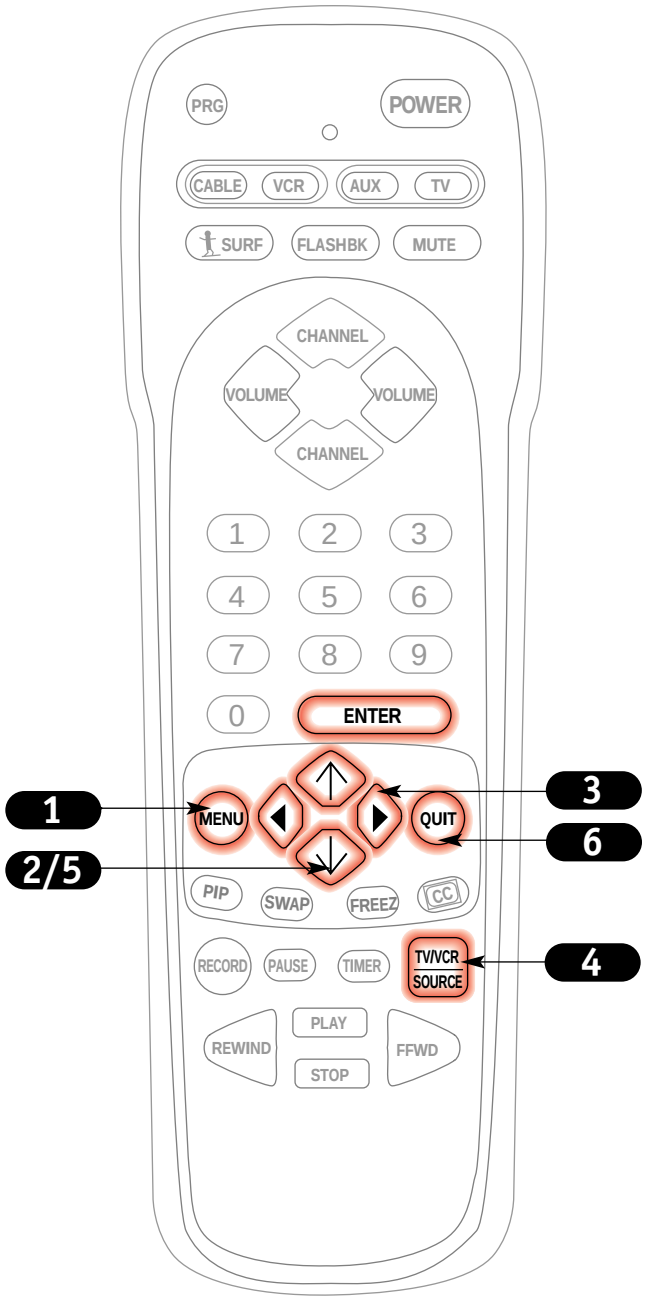
4 Press the SOURCE key to choose which color you want to adjust: Red or Blue.

5 Using the UP/DOWN and RIGHT/LEFT arrows on the remote, adjust the colors on the screen so the lines match and are completely white.

6 Press ENTER or QUIT to return to TV viewing.

Odd colored "shadows" around faces and in the menus may mean that the convergence is off.

If the lines never match up, no matter what you try, give Zenith's Projection TV helpline a call at 1-800-365-1690.

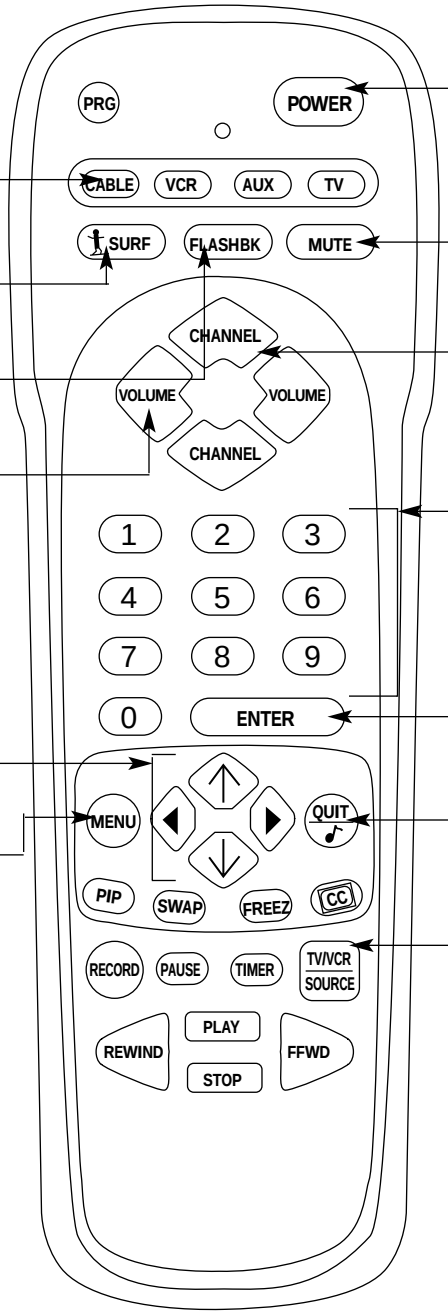


Mini glossary

CONVERGENCE This option lets you correct for color separation in your picture.

Button Functions on Your Remote

All the buttons on your remote, and what they do.



MODE
Adjust which mode your remote is working in.

SURF
Use the regular channel selection or your customized channel Surf lists.

FLSHBK
Return immediately to the last channel viewed.

VOLUME LEFT/RIGHT
Increases/decreases the sound level

ARROW KEYS
Allows you to move through on-screen menu choices.

MENU
Displays on-screen menus.

POWER
Turn your Entertainment Machine and all other programmed equipment on or off.

MUTE
Press once for Soft Mute, and again for full Mute.

CHANNEL UP/DOWN
Scroll through your available channels.

NUMBER KEYPAD
For direct channel selection and programming functions.

ENTER
Push to accept menu choices or after channel numbers for faster transfer.

QUIT
Leaves programming menus and clears screen of displays.

SOURCE
Push to switch between available sources connected to your Entertainment Machine.

Remote Control Part Number
MBR 3457

Mini glossary

MODE The device that the remote control is currently controlling (TV, VCR, DVD, etc.) is its “mode.”

Introducing you to the basics of your Entertainment Machine

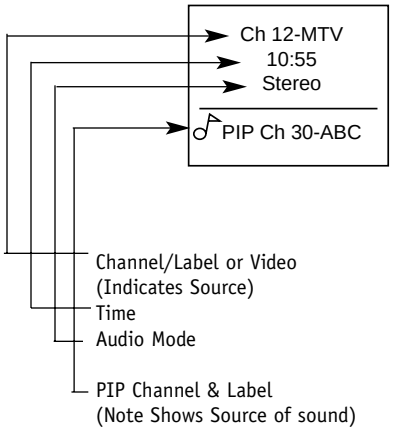
Basic TV Operation

Source

The source button (TV/VCR/Source) on the remote switches between Video input and Cable/Antenna input. The Time/Channel display will read "Video" in place of a channel number if A/V inputs are selected as the picture source.

Cable/Antenna Input: This setting allows you to change cable or antenna channels and view videocassettes on channel 3 (or 4) in mono sound.

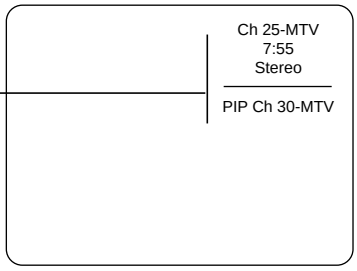
Video Input: This setting allows stereo playback of videocassettes. The television cannot change channels in the Video mode, but the VCR can.



To view the current input source, press ENTER on your remote. The Time/Channel display should appear in the upper right-hand corner of the screen. If the display reads 'Video,' then the source is an A/V input. If the display reads a channel number, then the source is your Cable or Antenna.

XDS Data Feature

XDS = Extended Data Service
Some broadcasters are including on the signal they provide additional information (data) about the program. This data (see example) appears on your TV screen when you press ENTER; if the channel has XDS.



Example of an XDS Data Display

Showing XDS Data
Select a channel. Press ENTER to display XDS data; if available.

XDS Channel Labels
XDS can provide a channel label automatically. For the programs to display an XDS channel label, select the dashes (- - - -) for that channel from the Channel ID option in the Setup Menu.

At this time, XDS data is only being provided by public broadcasting stations; and as a result, is only available on some channels.

You must set the Clock in the Setup Menu before the time will appear on the Channel/Time Display or on the XDS display.

Basic TV Operation (cont'd)

Introducing you to the basics of your Entertainment Machine

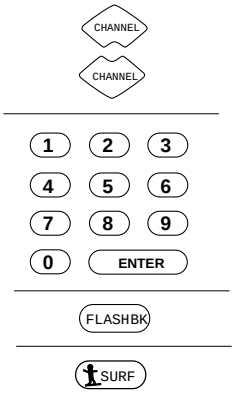
Changing Channels

CHANNEL UP/DOWN arrows: Use these arrows to change the channels. Autoprogram will have found all channels available to you.

NUMBER Key Pad: To skip to any channel, enter the number of the channel using the NUMBER key pad on your remote, then press ENTER.

FLASHBK: To instantly return to the last channel viewed, press FLASHBK on your remote.

SURF: Switches between the primary channel selection and your customized surf channel selections. The surf mode icon will appear in the lower right corner of the screen when you change channels. Press SURF to turn surf On, press again to turn surf mode Off.



This is while the source is set to Antenna/Cable. For any other source, such as a VCR, the Main Picture channel changing will be controlled by that equipment.

Audio

VOLUME RIGHT/LEFT: To adjust the volume level, use the volume Right/Left arrows on your remote. To silence your TV instantly, press MUTE once to soften the volume, press again to turn sound off. To get the sound back, press MUTE again.

Front Panel

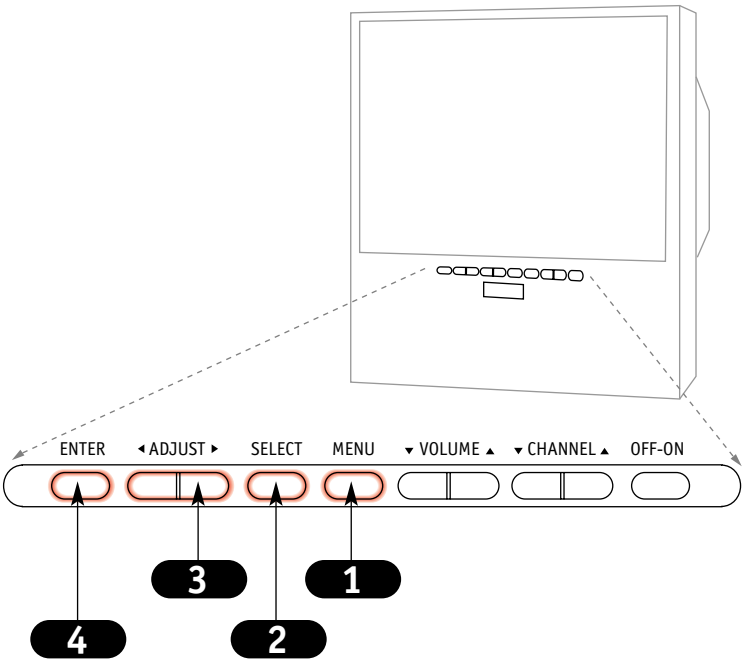
Using the ten-button front panel to operate the menus.

1 To access the menus, push the MENU button on the panel. Cycle through the various menus by pushing the button repeatedly.

2 Press the SELECT button repeatedly to highlight the option you want to modify.

3 Press either Right or Left on the ADJUST button to modify the option you have chosen.

4 Push the ENTER button to return to normal TV viewing.



Refer to the various pages on how to use the on-screen menus.

The CHANNEL and VOLUME buttons work just as they do on your remote control.

Lost the remote? Call Zenith at 1-800-365-1690 to ask about purchasing a new one.

On-Screen Menus

Descriptions of all the menus on your Entertainment Machine.

Using the Menu button on your remote you can access all the menus below.

Menu Name		Go to page
SOURCE MENU	Choose from the available sources for both the main picture and PIP.	23
SETUP MENU	Adjust the basic characteristics of your Entertainment Machine.	
Channel Search	Automatically finds and stores active channels to flip through using Channel Up/Down.	14
Add/Del/Surf	Manually pick and choose which active channels will appear when flipping through using Channel Up/Down	24
Clock Set	Set the time yourself, or program your clock to automatically detect the time, and to adjust to Daylight Savings when you program in your time zone.	25
Captions	Turn closed captioning on, off, or set it to come on automatically when the television is muted.	26
Captions/Text	Choose the captioning or text method for your Entertainment Machine.	26
Language	Pick the language you want your on-screen menus to appear in.	27
Background	Turns the background for on-screen menus transparent or opaque.	28
Projo Setup	Allows you to adjust the color convergence of your Entertainment Machine.	16
FEATURES MENU	Go beyond basics and customize your Entertainment Machine's functions.	
Timer Setup	Program a time for your Entertainment Machine to turn itself on or off, or to turn itself off after a certain amount of time.	29
Channel Labels	Label your channels with their network names (ABC, CBS, HBO, etc.).	30
Source ID	Customize the names of your sources by either selecting a label or making your own.	31
Surf ID	Design a custom channel surf selection for up to four people, and put their names on them.	32

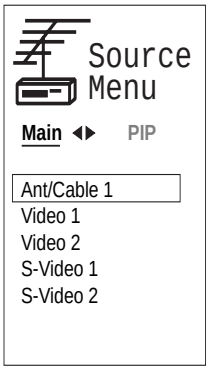
Descriptions of all the menus on your Entertainment Machine.

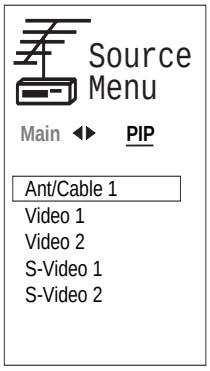
On-Screen Menus Overview, cont'd

Menu Name (cont'd)		**Go to page**
Parental Control	Allows parents to block any channel for up to 99 hours, with the use of a password.	33
Guide Setup	Program the TV Guide+.	34
Auto Demo	Your Entertainment Machine will show you what it's capable of by running through many of its options and menus automatically.	34 35
AUDIO MENU	Customize the sound to suit your room and your taste. Your options are: Bass, Treble, Balance, Audio Mode, SoundRite, Front Surround, Rear Surround, BBE Audio, Speakers.	36
VIDEO MENU	Adjust your picture for any viewing situation. Your options are: Contrast, Brightness, Color, Tint, Sharpness, Color Temp, Video Filter, Skin Tone, Video Preset.	37
PIP MENU	Control the size and appearance of the PIP inset. Your options are: Contrast, Tint, Size.	38
Channel/ Time Display	Shows the current time, channel, video and audio source, and the Surf status.	
Volume Display	Shows the current sound level.	

Source Menu

This menu is where you switch input source devices so you can watch your antenna, cable TV, VCR, DVD, or anything else that you have hooked up to your Entertainment Machine. Regular antenna or cable will come through Antenna/Cable 1. All other devices will correspond to the names of the jacks to which they're connected.





Choose the sources for your main picture and PIP.

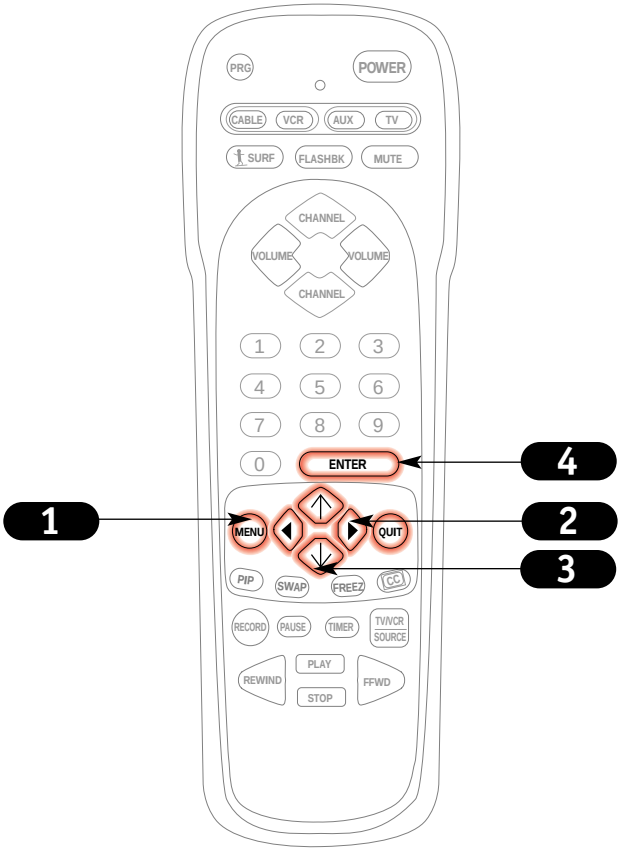
1 Push the MENU button repeatedly until the Source Menu appears on your screen.

2 Using the LEFT/RIGHT arrows, choose to set the source for Main or PIP.

3 Press the UP/DOWN arrows to select the entry that describes what source you're using to receive a signal. The names will correspond to the jacks on the back of your TV. If you connected a VCR to the Video 1 jacks, then select Video 1 to watch that VCR.

4 Press ENTER or QUIT to return to regular TV viewing, or repeat from step 2 to set the source for the PIP.

You can watch home movies and still scan for the big game.



Mini glossary

SOURCE — The term for the equipment that provides audio and video information to your Entertainment Machine. VCR, DVD players, or Cable Boxes are examples of sources.

Add/Del/Surf

Create your own channel selection for cooler surfing.

1 Press the MENU button repeatedly until the Setup Menu appears.

2 Using the UP/DOWN arrows, select Add/Del/Surf in the menu. Then press a RIGHT/LEFT arrow to enter the Add/Del/Surf screen. Your screen will be filled with channel numbers, the added chanels in white and the deleted channels in gray. The channel picture will be in the upper-right corner.

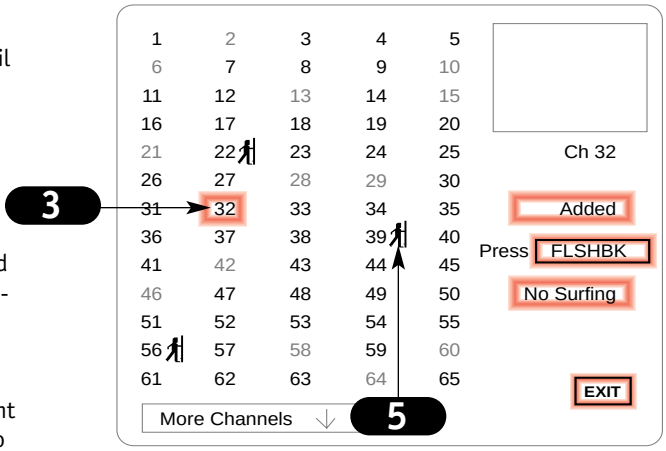
3 With the four ARROW buttons, highlight the channel you want to add/delete to your channel list. Press FLSHBK to Add or Delete channels.

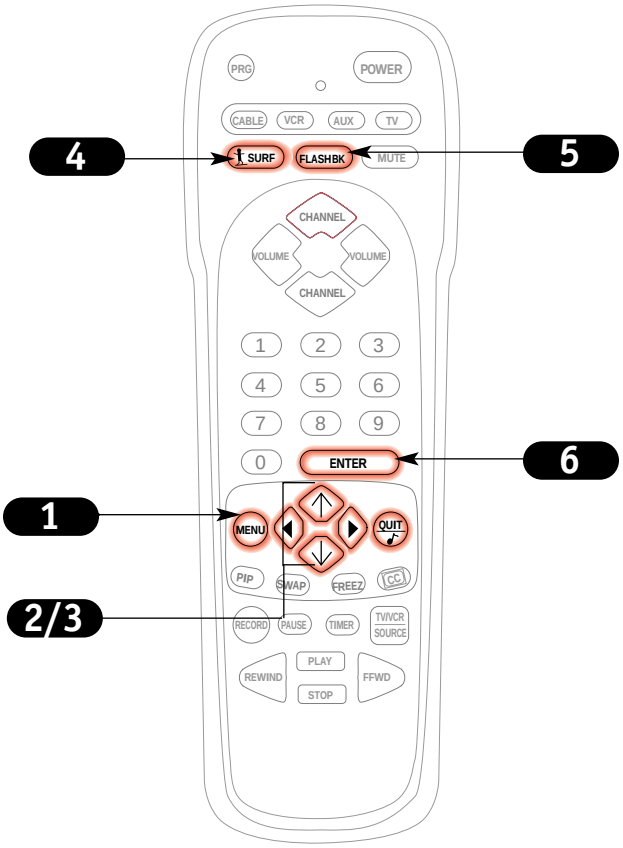
4 Press the SURF button to choose which list you're changing (No Surfing or Surf 1-4). The list name will be on the right, under the inset picture.

5 Press the FLSHBK button to cycle through the options (added or surf). Use the arrow keys to move to the next channel.

Note: The status of the channel will appear on the right side of the screen. Also, a Surfed channel will have a pink surfer icon next to it, active channels will be in white, and deleted channels will appear in a gray color.

6 Press ENTER and QUIT to return to TV viewing.



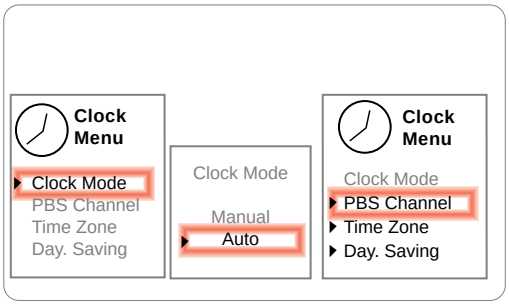


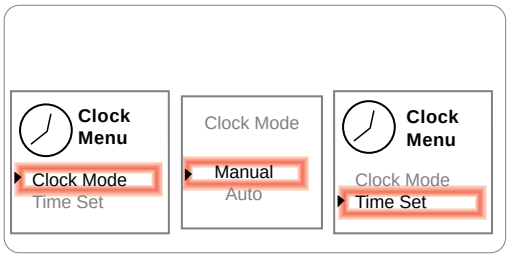
If the Add/Delete/Surf screen reverts to normal TV viewing, simply press the MENU key and then a RIGHT/LEFT arrow key to get back to the Add/Delete/Surf screen

Instead of "Surf 1" or "Surf 2," customize the name of your program listings. See Surf ID on page 32.

Clock Set

Automatically set the clock and date on your Entertainment Machine.





1 Press MENU key repeatedly until the Setup Menu appears.

2 Select Clock Set in the menu using the UP/DOWN keys. Press the LEFT/RIGHT arrow keys to set the clock.

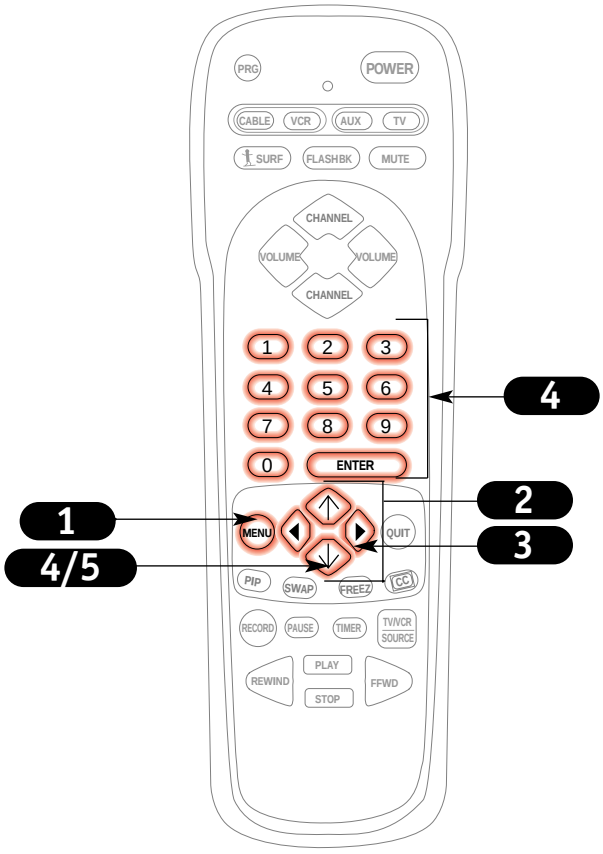
3 Clock Mode shoucld be the default feature selected in the menu. Press a LEFT/RIGHT arrow key to choose either Auto or Manual for clock mode. Manual will let you set the time yourself while Auto will set it for you while your Entertainment Machine is off.

4 **Manual:** Choose Manual, then press the DOWN arrow key and you will activate a display where you can set the clock by entering the time using the NUMBER keypad. Use FLSHBK to select AM/PM.

or

5 **Auto:** Choose Auto, then press the DOWN arrow key to select PBS channel. Use the NUMBER Keypad to enter the PBS Channel or cycle through the list using the LEFT/RIGHT arrow keys. Your current channel will change to that station.

6 Turn off your Entertainment Machine for ten seconds to activate the correct time.



Embedded in the PBS broadcast signal is the information for the correct time and date. Your Entertainment Machine will read that information and automatically display the right time.

If you follow these steps and your time is still one hour off, check your Time Zone and Daylight Savings Time within your Entertainment Machine to make sure they are properly set.

Turn closed captioning or text on, off,or have it appear automatically.

Captions and Caption/Text

Caption/Text is a feature which allows your Entertainment Machine to receive various closed caption and text options provided by your broadcaster. Availability and functionality of Caption/Text feature is determined only by your broadcaster and may not be available in your area.

1 Push the MENU Button until the Setup menu appears on your screen.

2 Using the UP/DOWN buttons, select Captions in the menu.

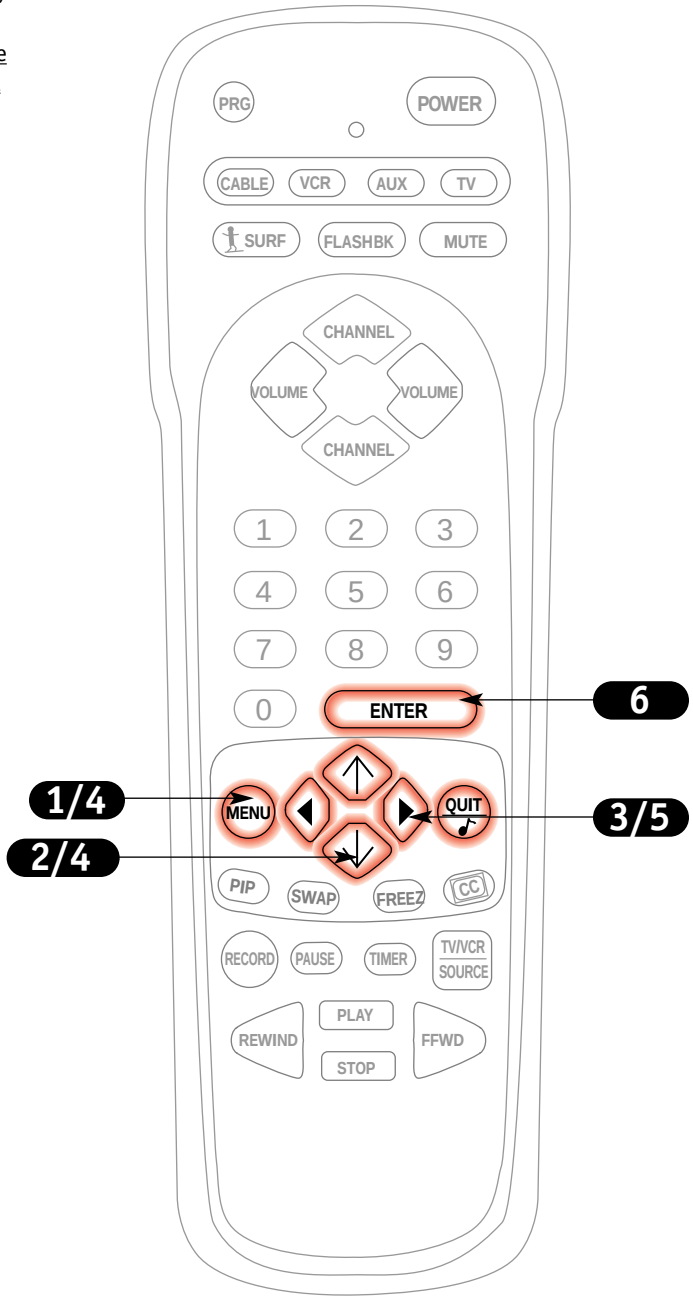
3 Use the RIGHT/LEFT arrows to choose whether you want the captions On, Off, or Caption When Muted, which sets captioning to come on automatically when you're Entertainment machine is Soft Muted or Muted.

4 Press the MENU button again, and use the Down arrow key to select Caption/Text in the menu.

5 Using the RIGHT/LEFT arrOws, select from Caption 1 through 4 or Text 1 through 4 as the captioning used.

6 Press ENTER or QUIT to return to normal viewing.

Choose Caption 1 to view the traditional Closed Captioning.



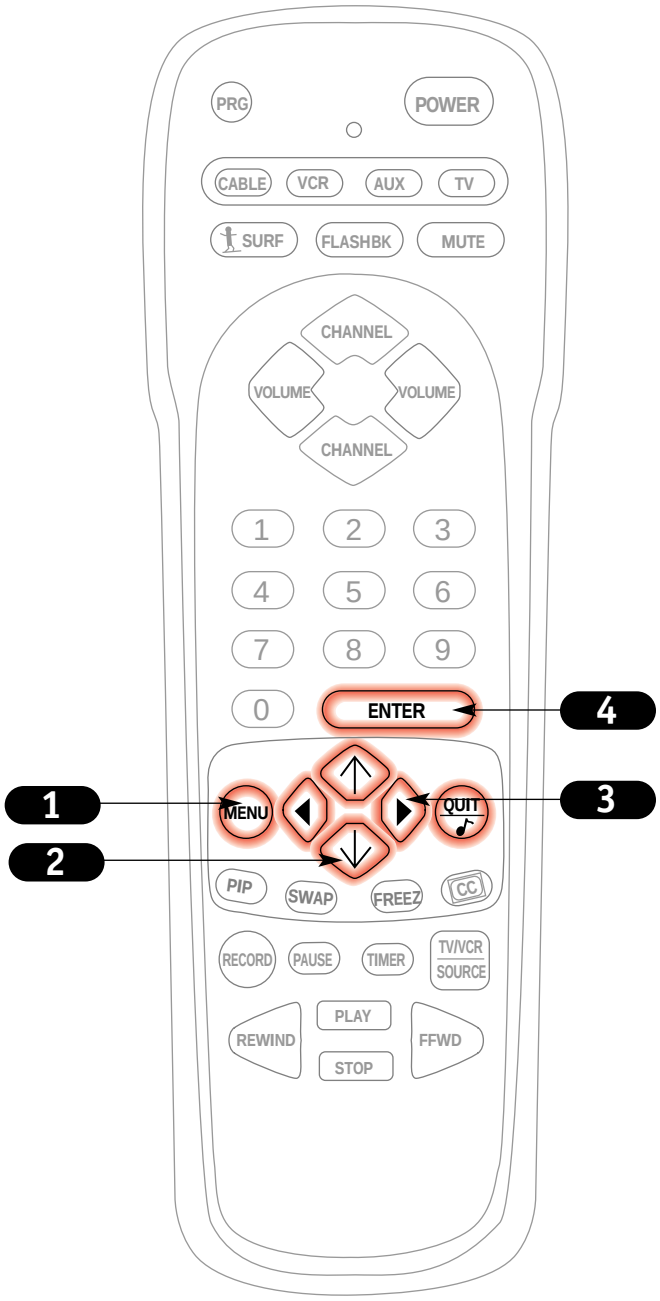
Mini glossary

CAPTIONS/TEXT	A form of subtitling that writes out the dialog for your program.
TEXT	Arbitrary text not related to the program.
CAPTIONS WHEN MUTED	Sets captioning to come on automatically when your volume is soft muted or muted.

Language Menu

Choose what language your on-screen menus appear in.

1. Press the MENU button until the Setup menu appears.
2. Using the UP/DOWN arrows, select Language in the menu.
3. Press a RIGHT/LEFT arrow to choose which language you prefer, English, Spanish, or French.
4. Press ENTER or QUIT to return to normal TV viewing.

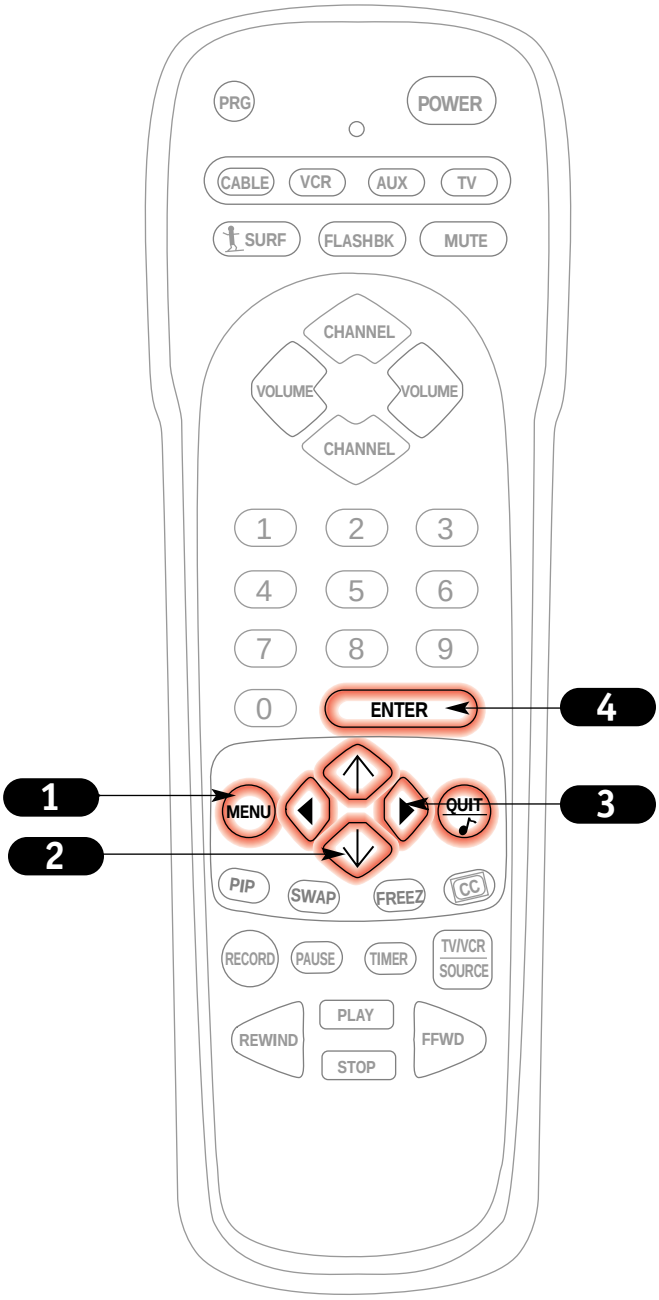


Background

Customize the look of your on-screen menus.

1. Press the MENU button until the Setup menu appears.
2. Using the UP/DOWN arrow buttons, select Background in the menu.
3. Press a RIGHT/LEFT arrow to choose whether you want an opaque background On or Off.
4. Press ENTER to return to normal TV viewing.

Turning your Background on makes reading your menus easier.



Timer

Automatically turn your Zenith Entertainment Machine on or off.

1 Press the MENU key on the remote control repeatedly until the Special Features Menu appears.

2 Using the UP/DOWN arrows on the remote control, select Timer Setup on your screen.

3 Press a RIGHT/LEFT arrow. The Timer Menu screen will appear.

4 Sleep Timer: Use the RIGHT/LEFT arrows to adjust the length of time (fifteen and thirty minute increments) until the TV shuts down.

Note: If you wish to use the On/Off Timer to set specific times for your Entertainment Machine to turn on and off, continue to step five to set the On Time, Off Time and On/Off Timer; or press ENTER or QUIT to return to TV viewing.

5 On Time: Using the UP/DOWN arrows on the remote control, select On Time on your screen.

6 Press a RIGHT or LEFT arrows or use the NUMBER key pad to enter the time your TV will automatically turn on.

7 Press the FLSHBK button to select AM or PM.

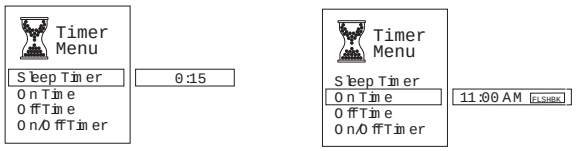
8 Press the UP/DOWN arrow keys to select Off Timer in the Timer menu and repeat steps six and seven to set the Off Time.

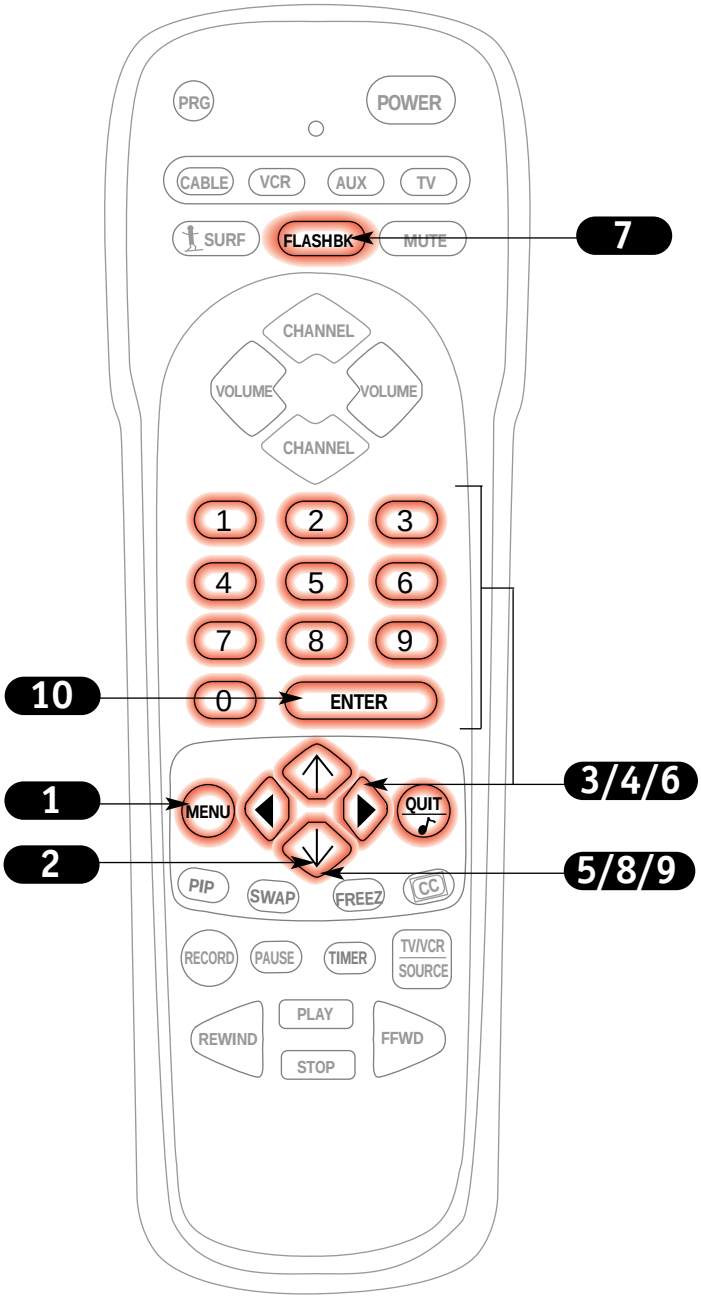
9 Press the UP/DOWN arrow keys to select On/Off Timer in the Timer menu

10 Press the LEFT or RIGHT arrows to turn on the On/Off Timer.

11 Press ENTER or QUIT to return to TV viewing.

The On/Off timer will not work until the Clock on your television has been set.





Channel Labels

Choose preset labels for channels or create your own.

1 With the CHANNEL UP/DOWN key or NUMBER KEYPAD, set your Entertainment Machine to the channel you want to label.

2 Press the MENU button repeatedly until the Special Features menu appears.

3 Using the UP/DOWN buttons, select Ch. Labels in the menu.

4 Press a RIGHT/LEFT arrow to enter the channel label menu. The current channel will appear in the upper-right corner, and the screen will fill with a list of possible channel labels.

5 Choose a label for the channel by using any of the UP/DOWN or LEFT/RIGHT arrows.

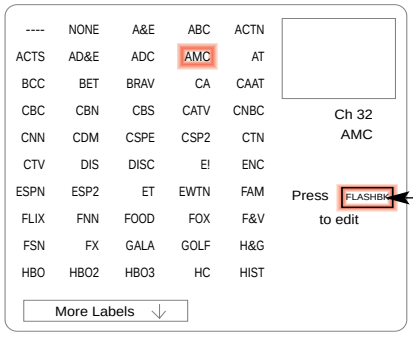
NOTE: The (----) label indicates that your TV will accept the original, broadcast label, and (None) will block all labeling.

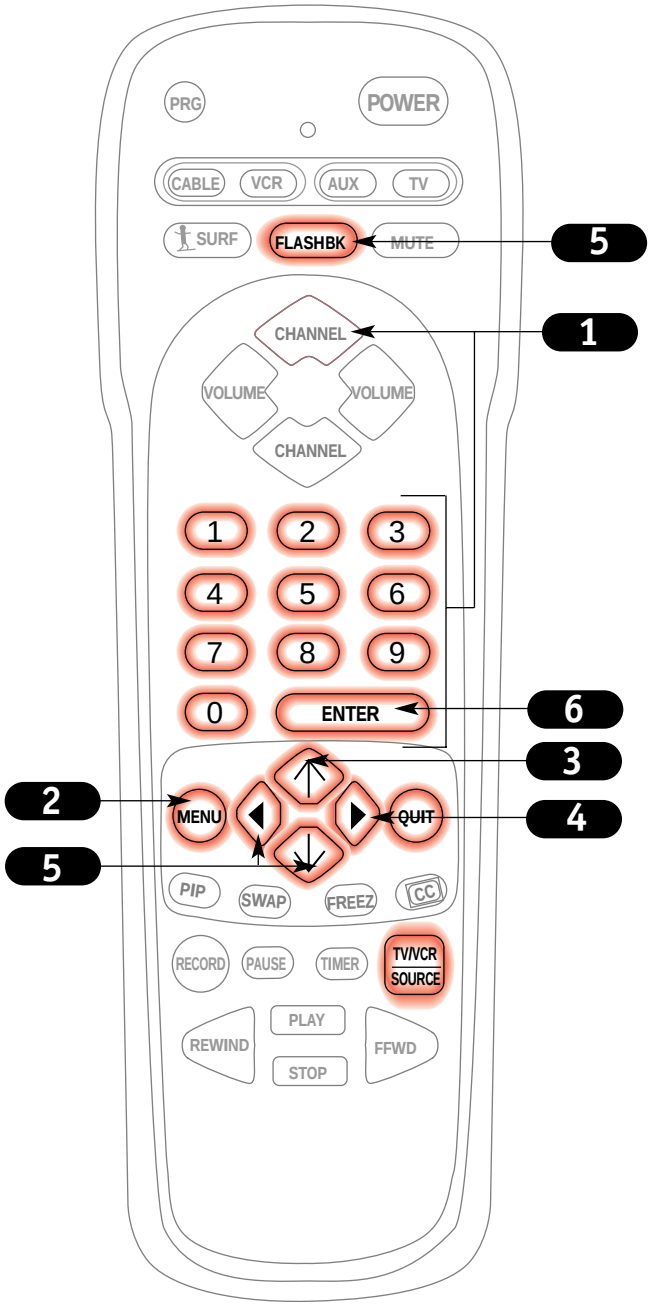
a) To edit any of the labels, push the FLASHBK button to reach the Edit menu.

b) Use the arrow keys to reach a letter, and press ENTER to select it. You can use up to four letters in the label.

c) Press TIMER to return to the full label menu.

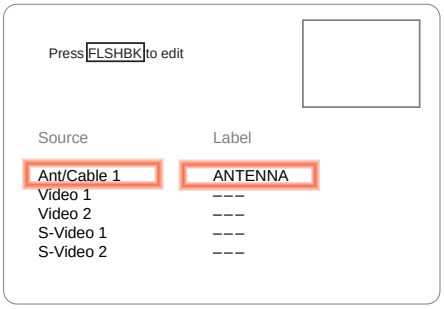
6 Press ENTER to accept the label and return to regular TV viewing.


---- NONE A&E ABC ACTN
ACTS AD&E ADC AMC AT
BCC BET BRAV CA CAAT
CBC CBN CBS CATV CNBC
CNN CDM CSPE CSP2 CTN
CTV DIS DISC E! ENC
ESPN ESP2 ET EWTN FAM
FLIX FNN FOOD FOX F&V
FSN FX GALA GOLF H&G
HBO HBO2 HBO3 HC HIST
More Labels
Ch 32
AMC
Press FLASHBK to edit
5



Source ID

Source ID helps you keep track of which devices are hooked up to your TV's source jacks. You have a choice of a variety of labels or create one ouf your own!



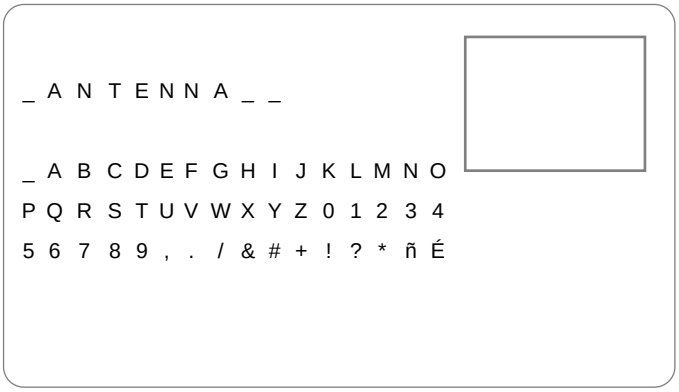
Name the sources for the Entertainment Machine with Source ID.

1 Press the MENU button until the Features menu appears.

2 Using the UP/DOWN arrows, select Source ID in the menu.

3 Press a RIGHT/LEFT arrow to enter the Source ID screen. Your screen will be replaced by a blue one that lists all the sources and their current labels. The titles under Source will correspond to the jack labels on the back of your Entertainment Machine. The titles under Label are what you will edit.

NOTE: The image in the upper-right corner will display whatever signal is being received from the highlighted source.



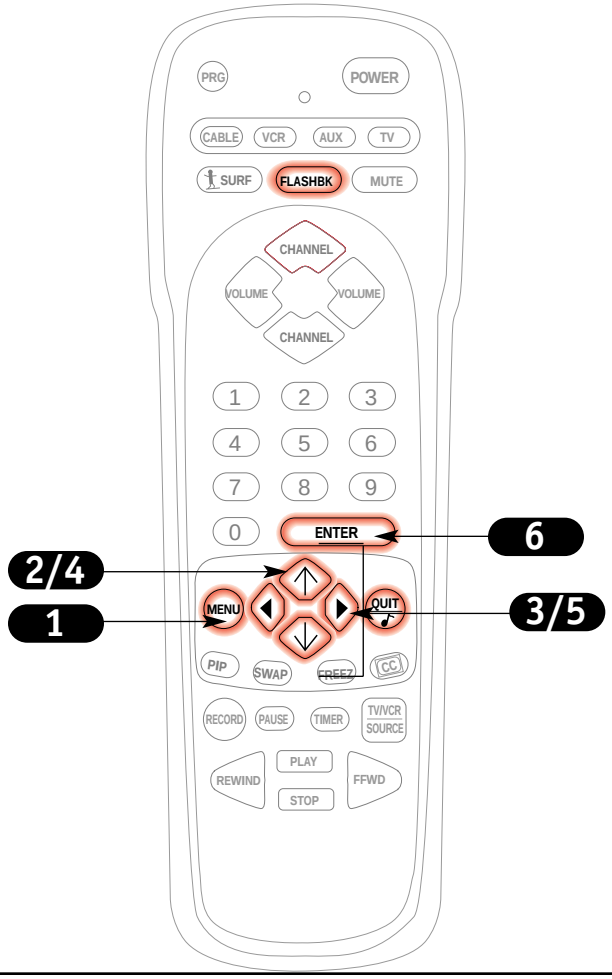
4 With the UP/DOWN arrows, select which source you want to label.

5 Pressing a RIGHT/LEFT arrow will cycle through the available source labels. Choose one that best describes the equipment connected to the jack.

a) To edit a label name, select the title you want to change, and press the FLSHBK button to reach the Edit screen.

b) You can scroll through the letters using the UP/DOWN and LEFT/RIGHT arrows. Press ENTER to choose a letter; you can use up to 10 letters in the label.

c) When you are finished, press the FLSHBK button to return to the full Label menu.

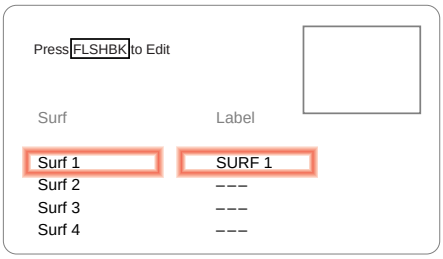


6 Repeat the above steps for another source, or press ENTER or QUIT to return to regular TV viewing.

Channel labels can be edited and re-edited every time you rearrange your equipment. Make sure to keep track!

Surf ID

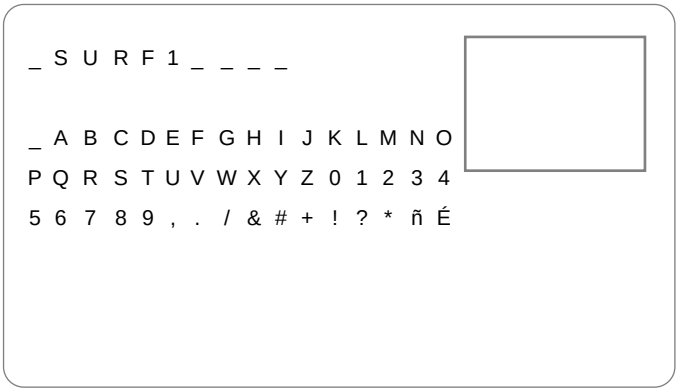
Customize your surf lists for up to four people.



1 Press the MENU button until the Features menu appears.

2 Using the UP/DOWN arrows, select Surf ID in the menu.

3 Press a RIGHT/LEFT arrow to enter the Surf ID screen. Your screen will be replaced by a blue one that lists all the sources and their current labels.

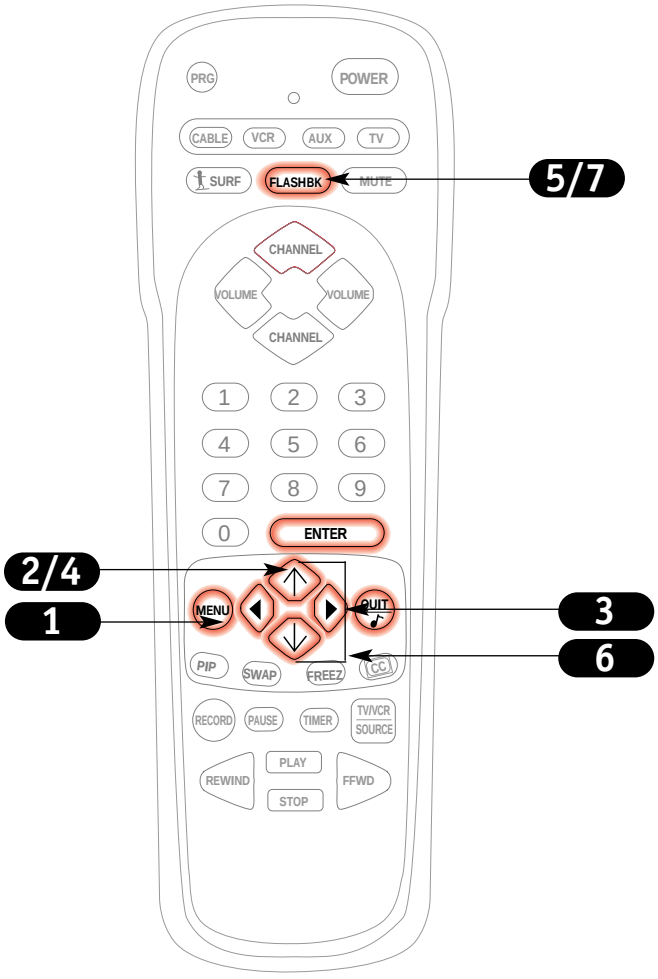


4 With the UP/DOWN arrows, select which surf list you want to edit.

5 Press FLSHBK to enter the Edit menu. An alphabet, including some symbols will appear. Spell out the name you want by clicking on one letter after the other (up to 10 characters).

6 Following the on-screen directions and using all four of the arrow keys, customize the name of the surf list (your name, the kids' name, etc.)

7 Press FLSHBK to return to the Surf list screen, or press ENTER or QUIT to resume regular TV viewing.



Parental Control

1 Press MENU until the Special Features menu appears.

2 Using the UP/DOWN arrows, select Parental Ctl. within the menu.

3 Press a RIGHT/LEFT arrow to enter the parental controls (Par. Ctl.) menu.

4 With the UP/DOWN arrows, select Block Ch.

5 Press a RIGHT/LEFT arrow to enter the channel selection menu. The screen will be replaced by a blue screen listing all of your available channels.

6 Using the arrow key,s select the channel numbers that you wish to block. The screen lists the channel as Unblocked.

7 Press the FLSHBK key Block the channel. A small padlock icon will appear next to the channel number to indicate that the channel is blocked.

8 Press the MENU button to return to the Par. Ctl. menu.

9 Press an UP/DOWN arrow to select Set Hours in the menu.

10 Press a RIGHT/LEFT arrow and a display will appear asking for the number of hours the channel is to be blocked. Use the RIGHT/LEFT arrows to increase/decrease the amount of time.

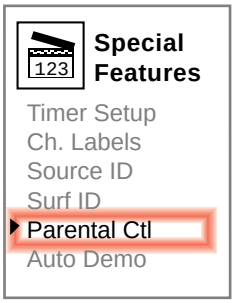
11 When you have selected the desired amount of time, press the UP arrow to return to the Par. Ctl. menu.

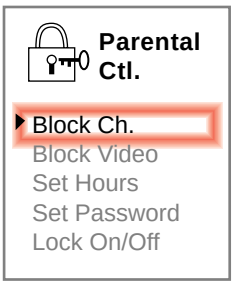
12 Use the UP/DOWN arrows to select Set Password. A display will appear to the right, prompting you to enter a code.

13 With the Number Keypad, enter a four-digit code. You will be asked to reenter the same code.

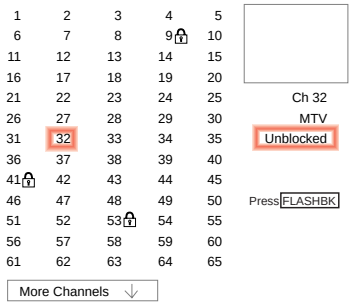
14 Use the DOWN arrow to select Lock On/Off in the menu, and press a RIGHT/LEFT arrow. A display will appear at the bottom of the screen.

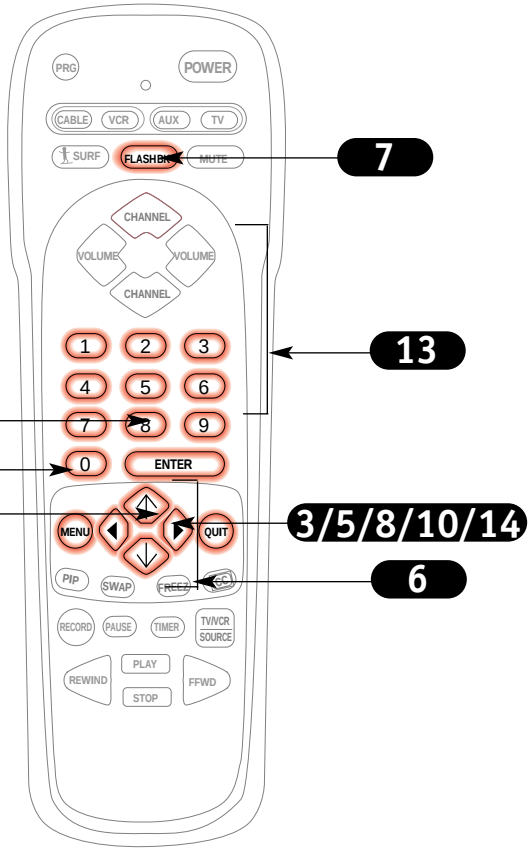
15 Press ENTER or QUIT to exit Parental Control and resume TV viewing.





Make sure you know what your kids aren't watching.





Auto Demo

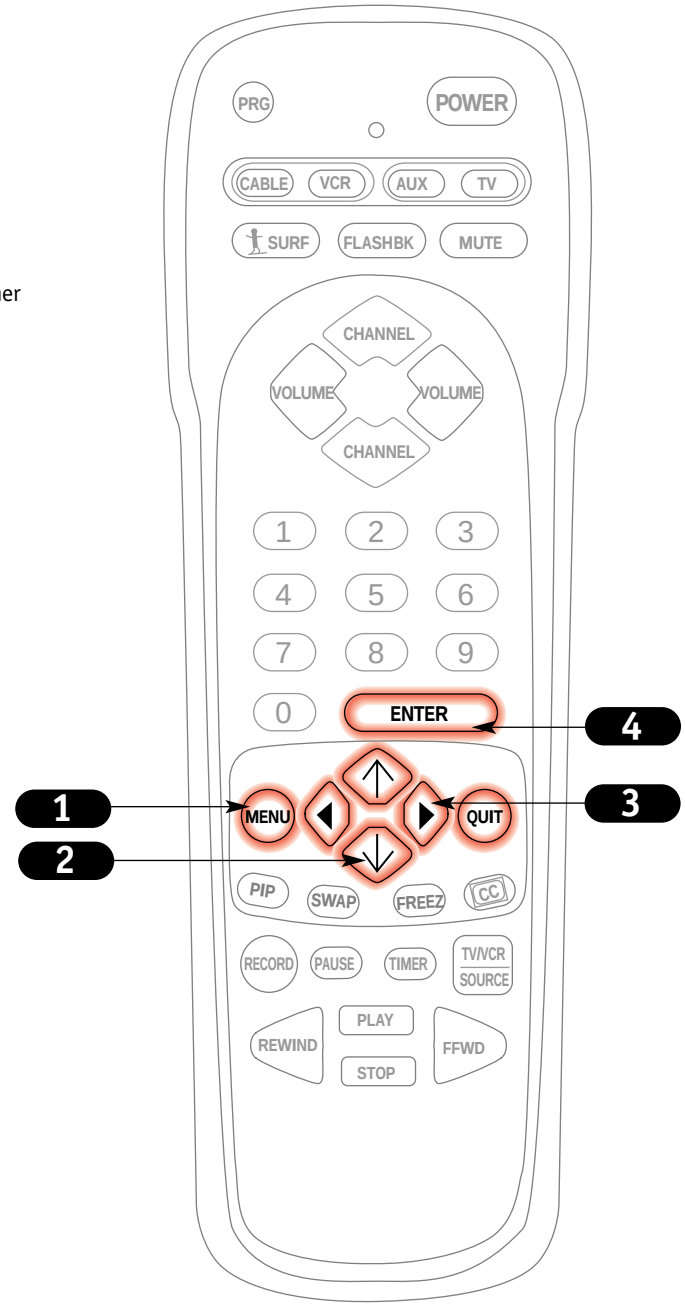
Your Entertainment Machine will show you all your menu options.

1 Press the MENU key on the remote control repeatedly until the Special Features menu appears.

2 Using the UP/DOWN select arrows on the remote control, select Auto Demo on your screen.

3 Press a RIGHT/LEFT arrow, select whether you want Auto Demo on or off.

4 Press ENTER or QUIT to return to TV viewing.



Auto Demo displays many of the menus and displays your Zenith Entertainment Machine has, showing you the layout and location of your options.

To let you know it's running, Auto Demo places an animated icon in the upper-right corner of your screen.

Pressing any key on the remote or front panel of your Entertainment Machine will temporarily stop the demo. To cancel the demo, you must turn off the Auto Demo.

Audio Menu

Customize the sound on your Entertainment Machine.

1 Press the MENU key on the remote control until the Audio menu appears.

2 Using the UP/DOWN arrows on the remote control, select the setting you want to change. Choose from:

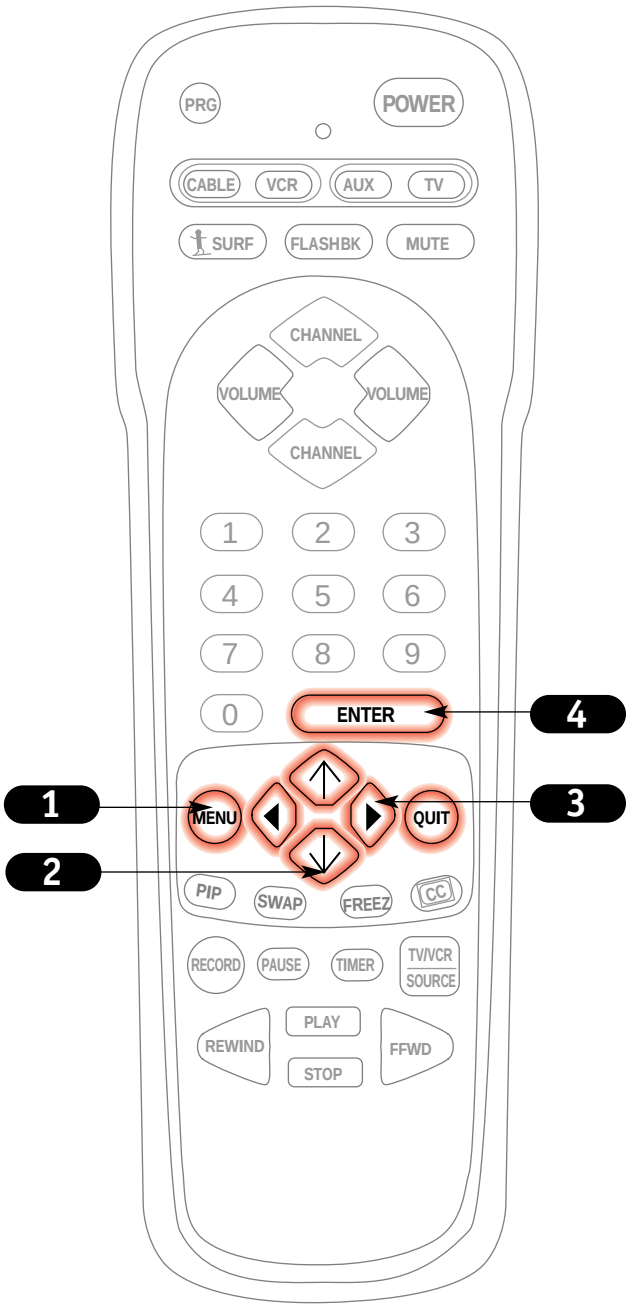
- **Bass:** Increase/decrease lower-end sounds.
- **Treble:** Increase/decrease higher-end sounds.
- **Balance:** Allows you to put the sound more to the left or right channel.
- **Audio Mode**: Choose from stereo sound, mono, or SAP.
- **SoundRite**: Scans for changes in sound level during commercials, then adjusts the sound to match your current level.
- **Front Surr**: Turn the front surround sound speakers on or off.
- **Speakers**: Turn the regular speakers on or off.

3 Use the RIGHT/LEFT arrows to adjust the sound setting to whatever you prefer.

4 Press ENTER or QUIT to return to TV viewing, or press the UP arrow to return to the Audio Menu to adjust another option.

Not all programming is broadcast in stereo sound, or has Second Audio Programming/SAP.

Programming that doesn't broadcast SAP may be silent when you set your Entertainment Machine on this setting.



Mini glossary

STEREO SOUND	Stereo (Stereophonic) sound refers to audio that's divided into right and left sides.
MONO SOUND	Mono (monaural) sound is one channel of sound. On more than one speaker all the speakers play the same audio.
2ND AUDIO/SAP	Second Audio Programming (SAP) is another, separate, audio channel available with some programming. Choosing SAP often refers to listening to audio in another language, such as Spanish or French.

Video Menu

Customize the picture quality on your Entertainment Machine.

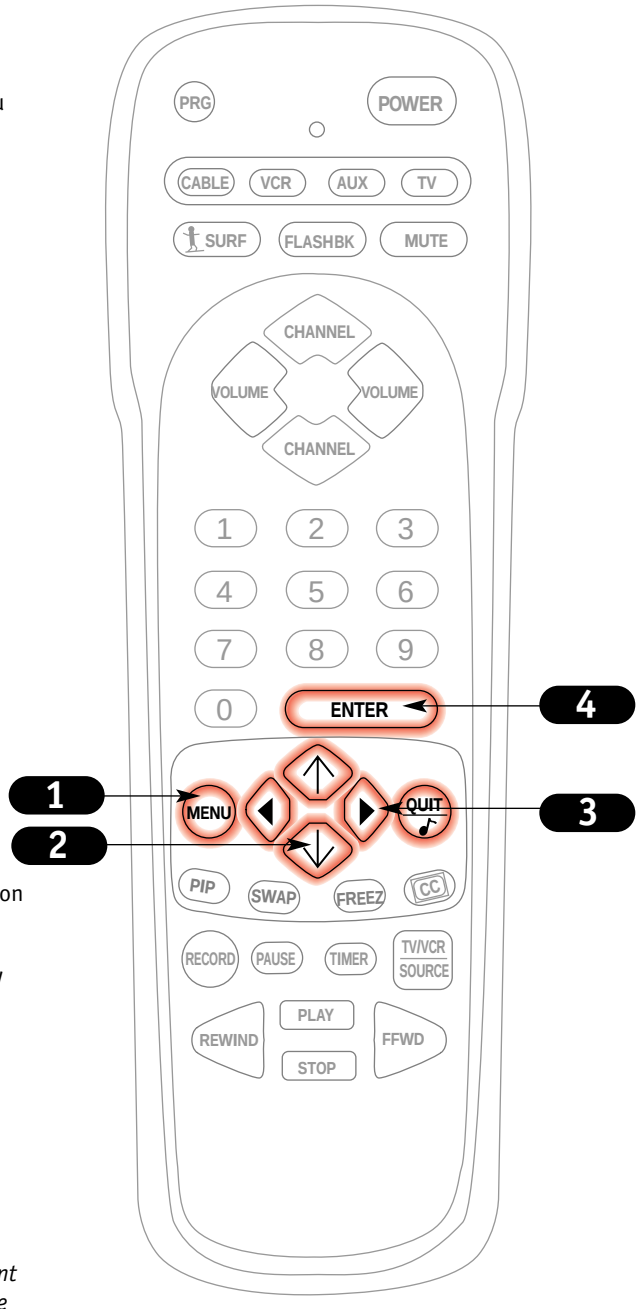
1 Press the MENU button until the Video menu appears.

2 Using the UP/DOWN arrows, select the menu option that you want to change. Your options are:

- **Contrast:** Changes the amount of difference between black levels and white levels in your picture.
- **Brightness:** Increases or decreases the amount of white in your picture.
- **Color:** Adjust levels of all colors.
- **Tint:** Adjust the relative amounts of the color red and green in your picture.
- **Sharpness:** Raise or lower the definition of the picture. The lower the level, the softer the image will appear.
- **Color Temp:** Adjust the color qualities of the entire picture at once: warm, medium, and cool.
- **Video Filter:** Reduces outside interference to enhance picture clarity.
- **Skin Tone:** Automatically adjusts the appearance of skin color, making it more natural.
- **Video Preset:** Choose from a range of options depending on your viewing situation. Custom uses the settings you have manually chosen, while Preset restores the levels to their original settings.

3 Press a RIGHT/LEFT arrow to adjust the option you have selected.

4 Press ENTER or QUIT to return to regular TV viewing.



Someone left the picture looking terrible? Just choose Preset under Video Preset to get the regular picture back quickly.

Your modified video selections can be different for each source. Modifying the settings in one source will not change settings in another source.

PIP Overview

Picture-in-picture explained.

YOUR PICTURE-IN-PICTURE FEATURE

The Picture-In-Picture (PIP) function allows you to put a smaller picture, called the "inset," on the bigger screen, or the "main" picture. Don't want to miss any of the big game, but hate commercials? Just put the game in the inset, and surf with the main picture.

WORKING WITH PIP

Just like your Entertainment Machine's main screen, PIP will need a source from which to take its image. This featured can be adjusted under the Source menu (see page 23).

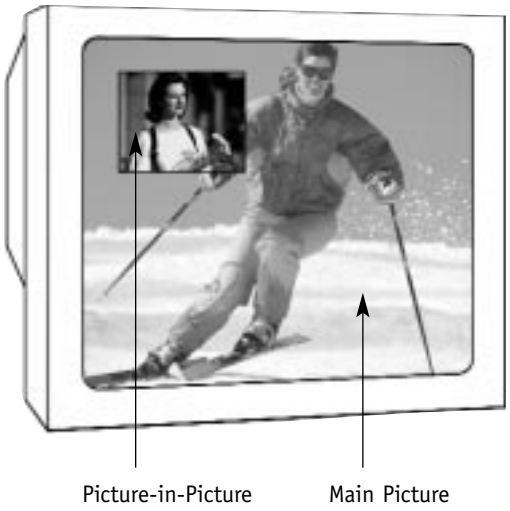
PIP BUTTON FUNCTIONS

PIP: Press PIP to display your Picture-In-Picture. Press again to remove PIP.

SWAP: Press SWAP to swap the main and the PIP pictures. Press again to return to the original display.

FREEZ: Press FREEZ to freeze the motion in the PIP window. Press FREEZ again to return to a live PIP window.

SOURCE: When PIP is shown, SOURCE selects the source for the PIP picture.



POSSIBLE REASONS FOR ADJUSTING PIP SOURCE

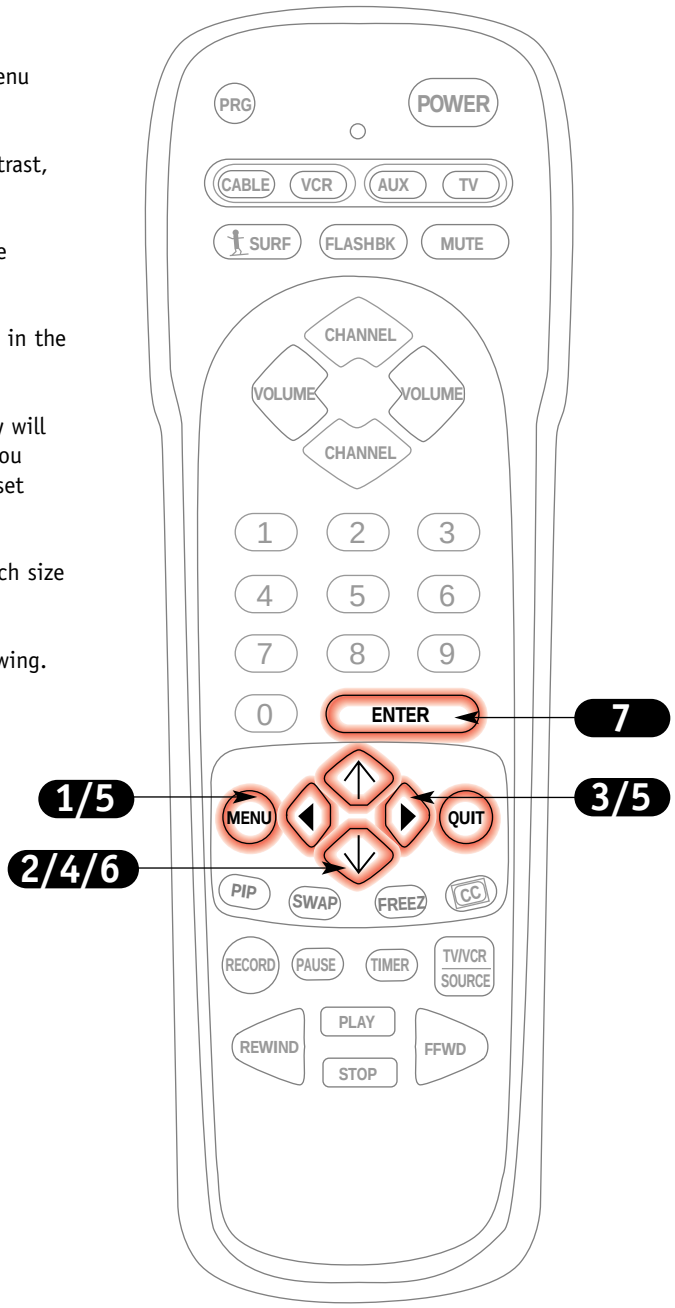
1. You use a cable box to receive premium channels, and have "looped out" on the back of the TV. Set the PIP source to the cable box source, and the Inset will display the premium channels, which can then be swapped with the main picture.

2. You want to watch a video tape, but keep scanning for another movie or game. Set the PIP source to VIDEO 1, 2, or 3 and you can watch the VCR and TV, swapping between the two.

Control the picture qualities of your PIP inset.

PIP Menu

1. Press MENU repeatedly until the PIP Menu appears.
2. Using the UP/DOWN arrows, select Contrast, or Tint.
3. Use the RIGHT/LEFT arrow to adjust the selection you have chosen.
4. Using the UP/DOWN arrows, select Size in the menu.
5. Press a RIGHT/LEFT arrow and a display will appear at the bottom of your screen. You have two sizes available for the PIP inset picture: Small and Large.
6. Use the UP/DOWN arrows to select which size you want your PIP to be.
7. Push ENTER to return to regular TV viewing.



Mini glossary

PIP This is the most common way to refer to the Picture-In-Picture (PIP) option.

Programming the Remote

Program your remote to work with a vast range of A/V devices.

1 The device you want to program should be ON.

2 On the chart in this manual, find the type of device you're programming and then find the brand name. Make a note of the three-digit code—you'll need it soon.

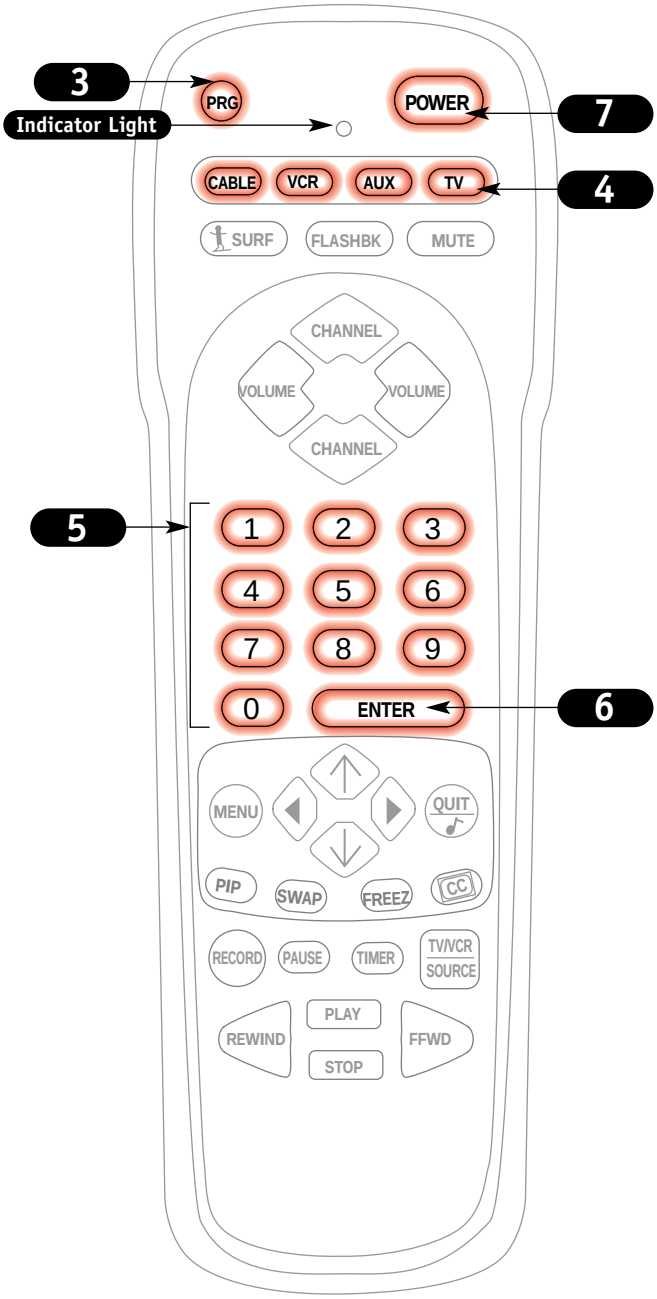
3 Press and hold the PRG key. It's recessed so it doesn't get pushed accidentally. When the indicator light turns on, you can release the button.

4 Push the button with the name of the device you're programming (VCR, CABLE, AUX, TV).

5 Using the number pad, enter the three digit code found on the chart in the Reference section.

6 Press ENTER to save the code The indicator light will flash three times and turn off if the code was accepted..

7 Aim the remote at the device and push the POWER button. It should turn off. If not, try the other codes listed and continue from step three.



Programming your Zenith remote will allow you to use one remote to work up to 7 different devices!

Not all devices will work with your Zenith remote control.

Find the codes you need to program your remote.

Programming Codes

TVs

Admiral 116 121 130 133
Adventura TV/VCR 154
Akai 104
Amark 103 146
AOC 104
Bell & Howell . . . 121
Broksonic 131 136
Candle 139
Centurion 119
Citizen 121 139
Contec 141
Coronado 103
Crown 103
Curtis Mathes 116 119 121
Daewoo 149 159
Daewoo TV/VCR . . 148
Daytron 119
Elektra 121
Emerson 103 104 123 124 131 136 145
Emerson TV/VCR . . 158
Fisher 109 118
Funai TV/VCR 154
General Electric . . 106 107 114 116 117 161
Goldstar 103 104 119 147
Goldstar TV/VCR . . 153
Hitachi 102 103 129 163
J.C. Penney 104 110 114 117 119
JVC 125 132 164
KMC 103
KTV 103 104 138
Kurazai 121
Lodgenet 121
Logik 121
LXI 133 137
Magnavox 103 112 113 117 119 127 128 139 165
Magnavox TV/VCR 173
Majestic 121
Marantz 104 120 155
Megatron 146
Memorex 121
MGA/Mitsubishi. . . 104 119 120 130 140 155
Montgomery Ward 103 104 105 113 114 119 121 130 133
NEC 104 119
Panasonic 106 107 160 166
Panasonic TV/VCR 174
Philco 103 104 112 113 139
Philips 112 113
Pioneer 135
Portland 103
ProScan 116 157 162 167
Quasar 106 107
RCA 104 116 126 157 161 162 167 168
Realistic 105 123 124
Sampo 119
Samsung 103 119 134 141
Sanyo 108 109 118
Scott 119 124
Sears 103 108 109 110 111 118 134
Sharp 103 105 122 133 137 156 169
Signature 2000 . . . 103 104 105 113 114 119 121 130 133
Sony 115 143 151 170
Soundesign 139
Sylvania 112 113 117 119 127 128 139
Symphonic TV/VCR 154
Tatung 106
Teknika 103 112 121 124 139
Telerent 103 121
Toshiba 110 111 134 171
XR 1000 121
Yorx 119
Zenith 101 149 175
Zenith TV/VCR . . . 153 154 172

VCRs

Admiral 208 261
Adventura 231 261
Aiwa 231
Akai 223 238 241
Audio Dynamics . . 202 218
Bell & Howell 206 247
Broksonic 221 226 233 250 255
Canon 214
Citizen 209
Craig 212
Criterion 239
Curtis Mathes . . . 214 259
Daewoo 244 246 248 254
Daytron 236 246
DBX 202 218
Emerson 203 209 221 223 226 233 235 243 250
Fisher 211 212 213 247
Funai 231
General Electric . . 214 216 220
Goldstar 209
Go Video 256 262 263 275
Hitachi 215 231 257
Instant Replay . . . 214 227
Inteq 273
J.C. Penney 214 215 218 227
JVC 202 224 225 258 268
Kenwood 202
Logik 239
LXI 209 231
Magnavox 207 214 231
Marantz 207 218
Marta 209
Memorex 206 212 214 231
Mitsubishi 204 222 252 264
Montgomery Ward 208 214 216 219 231 249
Multi Tech 239
NEC 202 218
Optimus 208 209 259
Orion 250 283
Panasonic 214 251 259
Pentax 215
Philco 207 214
Philips 207 214 227
Pioneer 210 215
Portland 246
ProScan 216 260
Quasar 214 259
RCA 215 216 220 227 240 242 249 260 267
Realistic 206 208 212 214 231
Samsung 220 230 238
Sansui 239
Sanyo 206 212 247
Scott 204 205 233 243
Sears 206 209 211 212 215
Sharp 208 261 272
Shintom 239
Signature 2000 . . . 208 214 216 219 231 249 261
Sony 217 232 237 274
Sony Beta/VHS . . . 237
Sony Video 8 217
Sylvania 207 214 227
Symphonic 231
Tashiko 209
Tatung 202
Teac 202 231
Teknika 209 234
Toshiba 205 215 271
Vector Research . . 204 218
XR 1000 239
Yamaha 202 218
Zenith 201 224 225 229 237
Zenith Beta 273

Programming Codes

Find the codes you need to program your remote.

Cable Satellite

Allegro 358 362
Allegro A/B Switch 361
Gemini 305 331 338
General Electric. . . 367
General Instrument 304 305 306 307 308 309 310 318
Hamlin 302 303 345 365 366
Jerrold 304 307 308 309 310 318 360 363
Kale Vision 335
Macom 314 321
Magnavox 334
NSC 335 339 368 369 370
Oak 311 332 342
Panasonic 313 320
Paragon 333
Philips 347 350 352 354 355
Pioneer 315 343
RCA DSS 373
Regency 329
Samsung 335
Scientific Atlanta 316 323 336 364
Sprucer 313
Standard Comp . . . 335
Texscan 339 356 371
Tocom 317 318 346
Unika 348 362
United Satellite . . 344
Universal 358 362
Vid Tech 340
Video Way 349
Viewstar 354 355 372
Zenith 301 353 374
Zenith Satellite . . 312 328 330 351 378

DVD Players

Pioneer 402 403 527
Sanyo 401
Sony 404 522
Toshiba 521
Zenith 401 521
Denon. 402 403
Mitsubishi 403
Panasonic 405
Pioneer 402 403
Sanyo 401
Sony. 404
Zenith 401

Audio CD Players

Akai 409 424
Carver 510
Crown 410
Denon 411
Fisher 412 438
Goldstar 460
Harman/Kardon . . 413
JVC 415
Kenwood 412 416 417 441
Magnavox 421 422 433 434
Mitsubishi 423 424
NAD 425 426 447
Nakamichi 427 428
NEC 429
Onkyo 430
Panasonic 431 432
Philips 421 433 434
Pioneer 431 435
Quasar 432
Radio Shack 431 436 439 440 441
RCA 437
Sanyo 438 439
Scott 440
Sharp 441 442
Sony. 443 444 445
Soundesign 461 498 501 502
Sylvania 433
Teac 446
Technics 432 459
Toshiba 447
Yamaha 448
Zenith 460 461 498 501 502

Audio Tape Decks

Denon. 455
Harman/Kardon. . . 456
JVC 457
Kenwood 450
Onkyo 458
Philips DCC 454
Pioneer 451 478
Sony. 452

Audio Tuner and Amplifiers

Denon. 462 463
Fisher 464 505
Goldstar 460
Harman/Kardon. . . 465
JVC 466
Kenwood 468 469 506
Marantz. 472 503
Onkyo 473
Panasonic 507
Philips 475 476
Philips/Magnavox 505
Pioneer 477 478 479
Radio Shack 487 488
RCA 508
Realistic 480
Sanyo 481
Scott 482
Sharp 483
Sherwood 487 488
Sony. 489 490 491 492
Soundesign 461 498 501 502
Teac 494 495
Technics 497 507 509
Yamaha 496

A complete list of button functions for your remote control.

Zenith Button Functions

KEY NAME	TV Mode Zenith Code 101	VCR Mode Zenith Code 201	Cable Mode Zenith Code 353	AUX Mode Zenith Code 401
POWER	TV On/Off	VCR On/Off	Cable Box On/Off	AUX TV/Disc
CABLE	Selects Cable	Selects Cable	Selects Cable	Selects Cable
VCR	Selects VCR	Selects VCR	Selects VCR	Selects VCR
AUX	Selects Aux	Selects AUX	Selects Aux	Selects AUX
TV	Selects TV	Selects TV	Selects TV	Selects TV
SURF	Surf On/Off	VCR AM/PM	Cable FC/Fav Ch	AUX Audio
FLASHBK	TV Flashback	VCR Flashback	Cable Flashback	AUX Frame/Time
MUTE	TV Mute	TV Mute	TV Mute	TV Mute
CHANNEL UP	TV Channel Up	VCR Channel Up	Cable Channel Up	AUX Skip >>
CHANNEL DN	TV Channel Dn	VCR Channel Dn	Cable Channel Dn	AUX Skip <<
VOLUME (RIGHT)	TV Volume Up	TV Volume Up	TV Volume Up	TV Volume Up
VOLUME (LEFT)	TV Volume Dn	TV Volume Dn	TV Volume Dn	TV Volume Dn
1	TV Digit 1	VCR Digit 1	Cable Digit 1	AUX Digit 1
2	TV Digit 2	VCR Digit 2	Cable Digit 2	AUX Digit 2
3	TV Digit 3	VCR Digit 3	Cable Digit 3	AUX Digit 3
4	TV Digit 4	VCR Digit 4	Cable Digit 4	AUX Digit 4
5	TV Digit 5	VCR Digit 5	Cable Digit 5	AUX Digit 5
6	TV Digit 6	VCR Digit 6	Cable Digit 6	AUX Digit 6
7	TV Digit 7	VCR Digit 7	Cable Digit 7	AUX Digit 7
8	TV Digit 8	VCR Digit 8	Cable Digit 8	AUX Digit 8
9	TV Digit 9	VCR Digit 9	Cable Digit 9	AUX Digit 9
0	TV Digit 0	VCR Digit 0	Cable Digit 0	AUX Digit 0
ENTER	TV Enter	VCR Enter	Cable Enter	Aux Display
MENU	TV Menu	VCR Menu	Cable Menu	AUX Program
UP ARROW	TV Select Up	VCR Select Up	Cable Up Arrow	AUX Part
DOWN ARROW	TV Select Dn	VCR Select Dn	Cable Dn Arrow	AUX Random
LEFT ARROW	TV Adjust Left	VCR Adjust Left	Cable Left Arrow	AUX x3 FAST <
RIGHT ARROW	TV Adjust Right	VCR Adjust Right	Cable Right Arrow	AUX x3 FAST >
QUIT/	TV Seq Sound	VCR Quit	Cable Quit	AUX Clear
A	TV PIP	VCR+	Day Up	AUX Repeat-Side
B	TV PIP Swap	VCR Channel Map	Day Down	AUX Repeat-A-B
C	TV PIP Freeze	VCR Search	Cable Pg Up	AUX Repeat-Chap
CC	TV Closed Captions	VCR Memory	Cable Pg Down	AUX Memory
TIMER	TV Timer	VCR Timer	Cable Timer	AUX Still
TV/VCR/SOURCE	TV Sources	TV Tuner or VCR Tuner	Cable Info	AUX TV/Disc
RECORD	VCR Record	VCR Record	Cable Buy	AUX Edit
PAUSE	VCR Pause	VCR Pause	Cable Guide	AUX Pause
REWIND	VCR Rewind	VCR Rewind	VCR Rewind	AUX Scan <<
PLAY	VCR Play	VCR Play	VCR Play	AUX Play
STOP	VCR Stop	VCR Stop	VCR Stop	AUX Stop/Eject
FFWD	VCR Fast Forward	VCR Fast Forward	VCR Fast Forward	AUX Scan >>

References: 124-212-37 and µP 221-952-02A

Amplifier Volume Override

Control the volume on your sound amplifier while in TV mode.

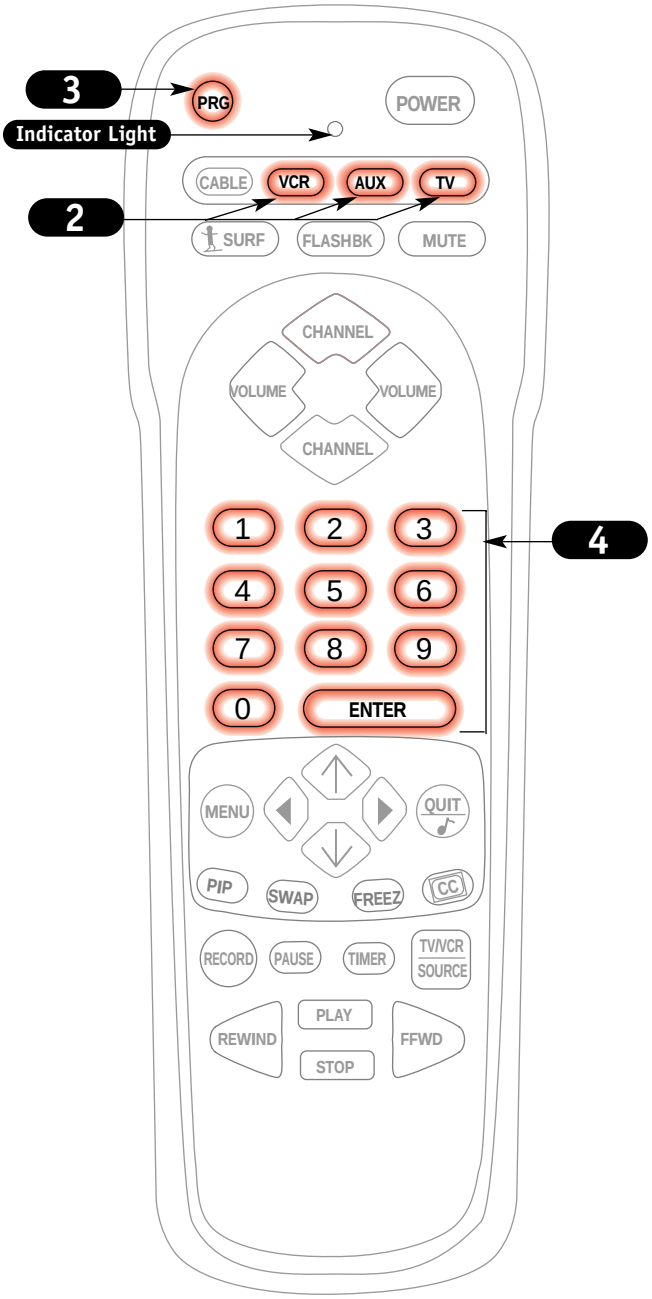
1 Program the code that operates your amplifier into the CABLE or AUX mode, as described on the "Programming Your Remote" page.

2 Select the mode in which you want amplifier volume to appear (e.g. TV).

3 Press and hold PRG on your remote until the indicator light stays lit.

4 Press 4-9-9; then ENTER on the remote. The indicator light will flash three times and then turn off..

5 Audio system volume/mute now appears in the mode selected.



Your volume and mute keys now control your amplifier. To put everything back to normal, reprogram all buttons with their original codes (see the "Programming Your Remote" section).

If you can't find the code for your amplifier, use the Auto Find feature.

Mini glossary

AMPLIFIER: An external machine that amplifies sound from a television, CD player, VCR, DVD or other A/V device.

Use the remote control to search all possible codes.

Remote Control Auto-Find

If Programming the Remote did not find your code, try this procedure to automatically find the code for your device. If your remote becomes inoperable, go back to "Programming your Remote" and enter the Zenith TV code for step five.

1 Turn on the device you're programming for the remote control.

2 Press and hold the PRG key until the indicator light turns on.

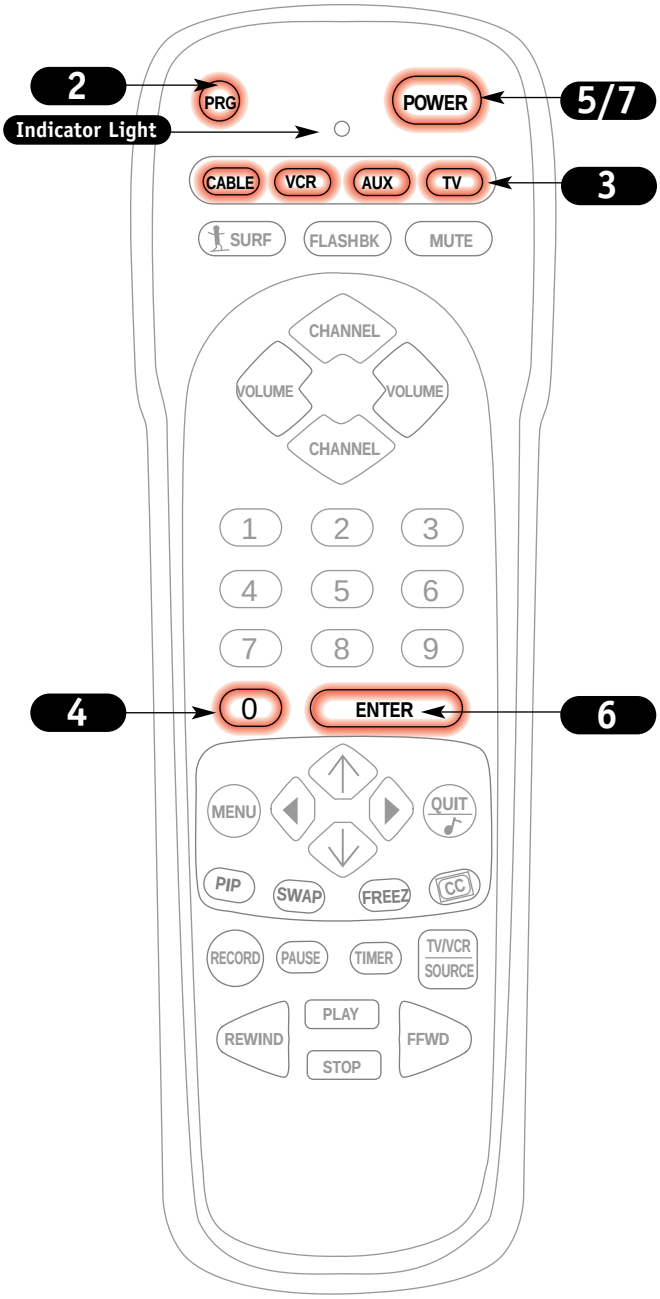
3 Press the key for the device you're trying to program (CABLE, VCR, AUX, TV).

4 Enter the code 0-0-0 (zero-zero-zero), then press the ENTER key right away.

5 Aim the remote at the correct device and press the POWER button. Allow a second to pass, then push the POWER button again. Repeat until the device turns off. (This is a trial and error process, so it may be necessary to repeat these steps until the remote finds your code.)

6 Push ENTER to save the code.The indicator light will flash 3 times and then turn off.

7 Press POWER to turn the device back on.



You can quickly get out of Auto Find by pressing the PRG button.

If the indicator light stays on while you push Power, instead of turning off, all the codes have been tried and your device can't be programmed.

Maintenance

Caring for your Entertainment Machine.

Early malfunctions can be prevented. Careful and regular cleaning can extend the amount of time you will have with your new Entertainment Machine. Be sure to turn the power off and pull out the plug before you begin any cleaning.

SCREEN CLEANING

1. Here's a great way to keep the dust off your screen for a while. Wet a soft cloth in a mixture of lukewarm water and a little fabric softener or dish washing detergent. Wring the cloth until it's almost dry, and then use it to wipe the screen.
2. Make sure the excess water is off the screen, and then let it air-dry before you turn on your Entertainment Machine.

CABINET CLEANING

1. Use a soft cloth with a mild soap solution to wipe the cabinet (avoid using any cleaner that says "industrial strength" or "will wash the white off of rice" on the label).
2. Rinse the cloth and wipe the cabinet again.
3. Let the cabinet air-dry before turning the Entertainment Machine on.

WOOD CABINETS

Use a quality wood cleaner and polish. This will protect the Entertainment Machine from dirt and dust, as well as keep the cabinet looking new.

EXTENDED ABSENCE

If you leave your Entertainment Machine dormant for a long time (such as a vacation), it's a good idea to unplug the power to protect against possible damage from lightning or power surges. If you use an off-air antenna, you may also want to disconnect it from the back of your Entertainment Machine before leaving.

Caring for your Entertainment Machine.

Maintenance cont'd

PICTURE INTERFERENCE

Even though you may be getting cable, the signal may be weak, which means the quality of your picture may suffer due to other factors. If there are problems with the image on your Entertainment Machine, consult the Troubleshooting guide on the following pages.

VIDEO GAMES AND OTHER FIXED-PATTERN DISPLAYS

If you use your Entertainment Machine to play video games or for other uses that have single, fixed images, such as a photo-CD player, you should avoid setting the Brightness level too high. If static images, like network identification patterns, are left sitting for too long, they can leave a permanent impression on the picture tube. You can reduce the chance of this happening by limiting the amount of time you use the fixed-image display, and by reducing the contrast and brightness levels.

If you unplug your Entertainment Machine, you may have to reset the clock using the Clock Set menu described earlier.

Troubleshooting

Some quick and easy tips to fixing problems yourself.

SYMPTOMS	SOLUTIONS
Snowy picture and unclear sound.	• Check your antenna connection or location • Check your cable input. • Check to see if the TV/.VCR button on your VCR has the TV selected.
Multiple images or 'ghost shadows.'	• Check your antenna direction and/or location. • Check your cable input • Make sure the cable from your antenna to your Entertainment Machine is properly connected.
Interference: Sharp lines across the screen and unclear sound.	*The following may cause image problems or distortion: Electrical appliances, powerful lights, cars, trucks; computers or portable phones; medical equipment* • If possible increase the distance between your Entertainment Machine and the offending appliance. Or shut one of them off.
Normal picture but no sound.	• Check volume levels. • Make sure the TV is not Muted. • Try another channel. The problem may be the broadcast, not your Entertainment Machine. • Are the Audio A/V cables properly installed? • Are the wires for external speakers (if you have external speakers) properly installed? • Make sure your speakers turned on under the Audio menu. • If your audio mode is set to SAP, that channel may not have a SAP program.
No picture and unclear sound.	• Are you in TV or cable tuning mode, and should be in the other? • Make sure output channels on all A/V equipment are on the same channel (3 or 4). • Check that all connections are tight.
No picture and no sound.	• Is the AC power plugged in? • Check that your AC power outlet works. (Test it by plugging in something else or try another plug.) • Make sure your brightness and audio controls are set properly. • Try another channel. The problem may be with the broadcast.
No color, but the sound is O.K.	• Check the color control in the Video menu. • Try another channel. The problem may be with the broadcast.
Picture has a big black box on it, but the sound is O.K.	• The CC (closed caption) option may be in Text mode. Select Caption 1, or OFF in the Captions/Text menu.(See page 25).
Picture has two horizontal black bars, one on top and one on bottom.	• Your program is in letterbox. This means that the shape of your TV is a square, but the program is a rectangle. Think of the bars as empty space the program doesn't fill; not picture that's blocked out. Because this format is a direct representation of film as you see it in the movies, you are actually seeing MORE of the program when you see those bars. Trust us.

Some quick and easy tips to fixing problems yourself.

Troubleshooting, cont'd

Remote control doesn't work.	• Make sure the batteries are fresh and installed properly.
Menu options can't be changed or selected.	• Try unplugging your Entertainment Machine for a few minutes, then plug it back in.
No picture or sound when any non-cable source is selected.	• Check to see if the source equipment has been turned on. • Make sure that the connections are secure on the back of your Entertainment Machine and on the source equipment.
Weak or no Stereo Sound when using a stereo VCR.	• Check to see if all the connections are secure. • Look in the Audio mode menu to see if all the settings are correct. • You are using channel 3 or 4 to view your VCR. No stereo sound is present under that decision.
The PIP inset is black or lacks contrast.	• You might want to adjust the PIP picture settings under the PIP menu. • Check that all the wires are connected properly. • Check to see if your input source for PIP is set correctly.
The PIP inset is "snow" when the source is Ant/Cable 1.	• Look to see if the TV/VCR button on your VCR has the TV selected.
Time is incorrect.	• Automatic: Check to see if PBS Channel is correct and then check Time Zone/Daylight Savings time settings under Clock menu. • Manual: Make sure the time was set initially. Probably power was lost.

If all else fails, call 1-800-365-1690, Mon.-Fri. 7:00 am and 8:00 pm Sat. 7:00 a.m.-5:00 p.m., CST

Glossary

A complete list of definitions for words found in this guide.

75 OHM RF CABLE The round cable that comes from an off-air antenna or cable service provider. Each end looks like a hex shaped nut with a wire sticking through the middle, and it screws onto the threaded jack on the back of your TV.

A/V CABLES Audio/Video cables. Three cables bunched together—Right audio (red), Left audio (white), and Video (yellow). A/V cables are used for stereo playback of videocassettes and for higher quality picture and sound from other A/V devices.

A/V DEVICE Any device that produces video or sound (VCR, DVD, cable box, or television).

ADD This function lets you add new channels to the list that you'll scroll through when using your remote.

AMPLIFIER An external machine that amplifies sound from a television, CD player, VCR, DVD or other A/V device.

ANTENNA The physical receiver of television signals sent over the air. A large metal piece of equipment does not always have to be visible for your home to be using an antenna.

CAPTIONS A form of subtitling that writes out the dialog for your program.

CAPTIONS WHEN MUTED Sets captioning to come on automatically when your volume is soft muted or muted.

CONVERGENCE This option lets you correct for color separation in your picture.

DATA PORT A jack for hooking up optional equipment that gives you access to the Internet through your TV.

DAYLIGHT SAVINGS "Observed" means that your Entertainment Machine will adjust your time setting at the appropriate times of the year. "Not Observed" will not. Set this depending on whether your viewing area uses Daylight Savings or not.

DELETE This function lets you remove channels that you don't watch from the list you'll scroll through.

Glossary (cont'd)

A complete list of definitions for words found in this guide.

INPUT	Refers to the jack that receives a signal into the TV, VCR or other A/V device.
JACK	A connection on the back of a TV, VCR, or any other A/V device. This includes the RF jacks and the Audio/Video jacks that are color-coded.
MODE	The mode determines the type of device (TV, VCR, Cable, Aux) that the remote is controlling.
MONO SOUND	Mono (monaural) sound is one channel of sound. On more than one speaker all the speakers play the same audio.
OUTPUT	Refers to the jack that sends a signal out of a VCR, DVD, or other A/V device.
PIP	This is the most common way to refer to the Picture-In-Picture (PIP) option.
SECOND AUDIO PROGRAMMING/SAP	Second Audio Programming (SAP) is another, separate, audio channel available with some programming. Choosing SAP often refers to listening to audio in another language, such as Spanish or French.
SIGNAL	Picture and sound traveling through cable, or on the air, to your television screen.
SOURCE	The term for the equipment that provides audio and video information to your Entertainment Machine. Antenna, VCR, DVD players, or Cable Boxes are examples of sources.
STEREO SOUND	Stereo (stereophonic) sound refers to audio that's divided into right and left sides.
SURF	This function creates a customized list of your favorite channels. You can access this group of channels by pushing the surf button on the remote.
TEXT	Arbitrary text not related to the program.
TUNER	Any device that picks up broadcast signals and turns them into picture and sound.

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Recommended Audio/Video Accessories

STEREO SURROUND SOUND SPEAKERS

For use with any Surround Sound compatible TV. These speakers create a sound so real, it's as if you were part of the action. The convenient, space-saving shelf design make these speakers an ideal addition to any Home Theater System. The contemporary black finish complements any room.

CV5000 ONLY $224.95 PLUS $17.95 SHIPPING & HANDLING

REPLACEMENT REMOTE

Broken or lost remote? Perhaps you would just like the c
venience of having a second remote on hand. Order your
replacement remote control direct from Zenith! To ensur
that you receive the correct remote, have your televisior
model number ready when you call.

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ORDER TODAY!
CALL TOLL-FREE
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PLEASE ALLOW 3 - 4 WEEKS FOR DELIVERY

Your Zenith Limited Warranty

Direct-View Color TV Welcome into the Zenith family! We believe that you will be pleased with your new Zenith Entertainment Machine. Please read this warranty carefully, it is a "LIMITED WARRANTY" as defined under Federal Law. This warranty gives you specific legal rights, and you may also have other rights that vary from state to state within the U.S.A.

ZENITH RESPONSIBILITY

Service Labor During a period of 90 days from effective warranty date, Zenith will provide service labor by a Zenith authorized service center when needed as determined by Zenith, as a result of manufacturing defects.

Parts New or remanufactured replacements for factory-defective parts will be supplied by a Zenith authorized service center for one year from effective warranty date (color picture tube — two years). Such replacement parts are warranted for the remaining portion of the original warranty period.

Home Service Warranty service for 21" diagonal (U.S.A.) or larger screen size models is provided in the home in most cases. (Some repairs may require the unit to be taken by the servicer to the repair facility and returned, at no additional charge.)

Not Covered This warranty covers manufacturing defects and does not cover installation, adjustment of customer controls in the home, installation or repair of home antenna systems, cable converters or cable company-supplied equipment; it also does not cover damage due to misuse, abuse, negligence, acts of God or other causes beyond the control of Zenith. Any alteration of the product after manufacture voids this warranty in its entirety.

OWNER'S RESPONSIBILITY

Effective Warranty Date Warranty begins on the date of original consumer purchase. For your convenience, keep the dealer's dated bill of sale or delivery ticket as evidence of the purchase date.

Operating Guide Read your Operating Guide carefully so that you will understand the operation of your set and how to adjust the customer controls.

Carry-In Service Models under 21" diagonal (U.S.A.) screen size must be taken to a Zenith authorized service center for warranty service and must be picked up by the owner.

Antenna Reception problems caused by inadequate home antenna or faulty antenna connections are the owner's responsibility.

Important Product Registration—Please fill out and mail your Product Registration Card. It is imperative that Zenith know how to reach you promptly if we should discover a safety problem that could affect you.

Warranty Service For warranty service information, contact any Zenith authorized service center. Parts and service labor that are Zenith's responsibility (see above) will be provided without charge. Other service is at the owner's expense. If you have any problem in obtaining satisfactory warranty service, call or write the Zenith Response Center. You must provide the model number, serial number and date of purchase or date of original installation. Before you ask for warranty service, read "Maintenance And Troubleshooting" in your operating guide. You might avoid a service call.

THIS WARRANTY IS IN LIEU OF ANY OTHER WARRANTY, EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION, ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, AND ZENITH SHALL NOT BE LIABLE FOR ANY CONSEQUENTIAL, INDIRECT, OR INCIDENTAL DAMAGES OF ANY KIND, INCLUDING LOST REVENUES OR PROFITS IN CONNECTION WITH THE PRODUCT.

ZENITH CONSUMER SERVICES
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Home & Carry-in Service
Television/VCR
Parts and Accessories
PTV/Computer

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ZENITH ELECTRONICS CORPORATION
Zenith Response Center
1000 Milwaukee Avenue
Glenview, IL 60025-2493
Telephone (847)391-8752
Mon-Fri, 7:00 a.m.-8:00 p.m.
Sat, 7:00 a.m.-8:00 p.m. CST
www.zenith.com

Additional Zenith Picture Tube Protection Plan Available
Zenith offers you the opportunity to obtain additional long-term protection against failure of the picture tube in your new Entertainment Machine. Our Picture Tube Protection Plan enables you to avoid any unexpected picture tube repair expenses and keep your Entertainment Machine in top condition. It guarantees you a genuine Zenith replacement picture tube and service from a Zenith authorized service center.

Be sure to send in the Product Registration Card. We will send you an application for the Protection Plan near the expiration of the two-year manufacturer's warranty on the picture tube. For additional information call (847) 391-8757.